

Grand Canyon

National Park Service
U.S. Department of the Interior
Grand Canyon National Park
Arizona



The Guide

South Rim: May 29–September 6, 2010

Also available in Deutsch, Español, Français, Italiano, Chinese, Japanese, and Korean



Mohave Point, NPS photo by Michael Quinn

Welcome to Grand Canyon National Park

The Grand Canyon we visit today is a gift from past generations. Take time to enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Follow the antics of the ravens soaring above the rim. Can you hear the river roaring in the gorge far below? We must ensure that future generations have the opportunity to form connections with this inspiring landscape.

A few suggestions may make your visit more rewarding. The information in this publication will answer many of your questions about the South Rim. Stop by a visitor center and talk with a ranger. Participate in a ranger-led activity. Save gas and frustration; park your vehicle and ride the free shuttles. Watch a sunrise or sunset. Walk out at night to enjoy the star-filled sky or the moon-lit canyon. Pause at a viewpoint and listen to other visitors proclaiming the beauty of the canyon in many languages.



Ride the Free Shuttle Buses

To make your stay at Grand Canyon National Park less hectic and to reduce traffic congestion, use the free shuttle buses. The shuttles operate from before sunrise to after sunset, come by frequently, and the drivers never get lost. Read the article on page 7 and the map on pages 12–13 for more details.

Stop in One of the Visitor Centers



Grand Canyon Visitor Center: The visitor center, in Canyon View Information Plaza, features ample parking and rangers to help plan your visit. Watch for construction around the visitor center and Mather Point.
Open daily 8:00 a.m.–6:00 p.m.

Verkamp's Visitor Center: On the rim east of Hopi House, Verkamp's Visitor Center hosts a bookstore and exhibits about the pioneer history of Grand Canyon Village. Enjoy the views along the nearby Rim Trail. Open daily 8:00 a.m.–7:00 p.m.

Yavapai Geology Museum: The exhibits in this historic building illustrate the geology of Grand Canyon. Marvel in the view from the panoramic windows 8:00 a.m.–8:00 p.m. daily.

Tusayan Museum: This historic building sits beside an ancestral Puebloan village. Displays feature elements from Native American cultures both modern and historic and include a large painting depicting a scene of the village as it may have appeared 800 years ago. A short, paved trail circles the excavation. The museum and bookstore, 3 miles (5 km) west of Desert View, are open 9:00 a.m.–5:00 p.m. daily.

Desert View Visitor Center: Rangers or Grand Canyon Association staff welcome you at this new visitor center and bookstore near the East Entrance of the park. A short walk leads to the Mary Colter-designed Watchtower and views of the canyon. Open daily 9:00 a.m. to 5:00 p.m. **Projected opening mid-June.**

Construction Ahead! Explore Cautiously.

Construction continues in the Grand Canyon Visitor Center and Mather Point area. Projects include a theater addition to the visitor center, improved trails to Mather Point, a rim-side amphitheater, added shuttle bus stops, and additional parking. Watch for more construction in Grand Canyon Village near the Train Depot.

Watch your step in construction areas and obey all signs and barricades.

Look inside for information on:

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What Time Is It?

Most of Arizona, including Grand Canyon National Park, remains on Mountain Standard Time year-round. During the summer, Arizona is on the same time as California and Nevada and one hour earlier than Colorado, New Mexico, and Utah.

Emergency: 911

24 hours-a-day dial
911 from any phone
9-911 from hotel phones



Thinking of Hiking?
See pages 18–19

The National Park Service cares for special places saved by the American people so that all may experience our heritage.

Ranger Programs

During your visit the National Park Service encourages you to participate in the programs listed below. All programs are free.

Grand Canyon Village

Activity	Location	Time	Duration	Frequency
Cedar Ridge Hike  <p>With a ranger, descend 1,140 feet (350 m) below the rim on the unpaved South Kaibab Trail to Cedar Ridge. This strenuous 3-mile (5-km) round-trip hike is not recommended for people with heart or respiratory problems or difficulty walking. Plan ahead: wear sturdy footwear, bring 1–2 quarts (1–2 liters) of water per person, food, hat, and sunscreen. Hikers cannot drive to the trailhead. Ride the free Village Route shuttle bus to Canyon View Information Plaza and hop on the Kaibab Trail Route shuttle bus by 6:40 a.m. Allow 45 minutes for total travel time.</p>	South Kaibab Trailhead	7:00 a.m.	3–4 hours	Daily
Fossil Walk   <p>Walk through an ancient ocean of marine creatures that thrived on this part of the continent 270 million years ago, before the age of the dinosaurs. This easy ½-mile (0.8 km) one-way walk explores an exposed fossil bed along the rim. Parking may be limited; park in Lots C or E or ride the free Village Route shuttle to the Bright Angel Lodge stop.</p>	Patio on rim side of Bright Angel Lodge	9:00 a.m.	1 hour	Daily
Geology Talk   <p>Why is the Grand Canyon so deep, wide, and grand? Why does it exist only here in the world? Come learn how Grand Canyon was formed. Program may include a short walk on a paved path. Plan sufficient time to arrive at Yavapai Geology Museum by the free Village Route shuttle bus.</p>	Bicycle rack outside Yavapai Geology Museum	9:30 a.m.	30–45 minutes	Daily
Rim Walk   <p>Grand Canyon offers a full palette of history, geology, and ecology stories. Join a park ranger for a walk (or talk, if weather is inclement) on the rim to explore the canyon's natural and cultural history. This program may involve an easy ½-mile (0.8 km) walk on a paved trail. Parking may be limited; consider parking at Lots C or riding the free Village Route shuttle bus to the Train Depot stop.</p>	Verkamp's Visitor Center front porch	11:00 a.m.	45 minutes	Daily
Porch Talk   <p>Grand Canyon is a spectacular place with amazing resources and stories. Join a ranger for this short program. Topics will vary. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop. Program is an excellent choice for train passengers.</p>	Verkamp's Visitor Center front porch	1:00 p.m.	15 minutes	Daily
History Program   <p>For thousands of years, humans have been part of Grand Canyon. Join park staff at Verkamp's Visitor Center to take a look at the history of the South Rim area. Programs may include a walk around the village historic district or a talk inside if the weather is poor. Parking may be limited; consider parking at Lot C or riding the free Village Route shuttle bus to the Train Depot stop.</p>	Verkamp's Visitor Center front porch	2:00 p.m.	30–45 minutes	Daily
Geo-Glimpse Talk   <p>Learn about canyon's geology during this short talk and enjoy the geology exhibits at Yavapai Geology Museum. Parking may be limited in the Yavapai Geology Museum parking area: plan to arrive by the free Village Route shuttle bus.</p>	Inside Yavapai Geology Museum	2:30 p.m.	20 minutes	Daily
Condor Talk   <p>Learn about the California condor, a highly endangered and majestic bird and its reintroduction in northern Arizona in a talk on the canyon's rim. Parking is limited; consider parking at Lots C or E or riding the free Village Route shuttle bus to the Bright Angel Lodge stop.</p>	In front of Lookout Studio near Bright Angel Lodge (You may have to use stairs to arrive at the program site.)	3:00 p.m.	30–45 minutes	Daily
Evening Program    <p>The perfect way to end your day at the Grand Canyon! Relax beneath the stars and enjoy a ranger presentation on a significant aspect of the canyon's fascinating natural or cultural history. For this evening's topic check the schedules posted around the park. Arrive by walking, driving, or riding the free Village Shuttle Bus. Dress warmly and bring a flashlight for this outdoor presentation. Accessibility note: Although the trails to the amphitheater are paved, short sections exceed 5% grade.</p>	Mather Amphitheater , behind Park Headquarters, a short walk from Parking Lot A	May–July 8:30 p.m. Aug.–Sept. 8:00 p.m.	1 hour	Daily

We hope that learning more about Grand Canyon National Park and its resources will lead to a greater appreciation of your national park.

Family Fun

Although children may enjoy many of the activities listed on the previous page, the following programs are designed especially for families. Please remember that children must bring an adult with them to all programs. Learn about the Junior Ranger Program on page 6.

Activity	Location	Time	Duration	Frequency
Junior Ranger Adventure Hike  				
This program begins June 13.				
Experience Grand Canyon below the rim. Join a ranger on the challenging Hermit Trail to enjoy Grand Canyon's wonders. Participants learn safe hiking techniques and may explore a fossil site and the colorful rocks, create artwork, or learn about plants and animals. This one- to two-mile (2-3 km) round-trip hike is strenuous; bring water, good hiking shoes, a hat, and sunscreen. This hike is ideal for families with children ages 9-14. Participants are eligible to purchase a Junior Ranger Adventure Hike patch. To arrive on time for this program, board the free Hermits Rest shuttle bus by 8:00 a.m. Begins June 13.	Hermits Rest bell	9:00 a.m.	2 hours	Daily
Junior Ranger Discovery Pack  				
This program offered June 15–August 14.				
Explore the ecological wonders of Grand Canyon with your family and discover the diversity of plants and animals that live here. Learn to use binoculars, field guides, and other tools of a naturalist. This program is designed for families with children ages 9-14. Participants are eligible to purchase a Discovery Pack Junior Ranger patch. Parents sign out the Discovery Packs with a driver's license and must return them to Park Headquarters no later than 4:00 p.m. the same day. Ride the free Village Route shuttle bus to the Shrine of Ages stop or park in Parking Lot A. Program offered June 15–August 14.	Park Headquarters by Parking Lot A	9:00 a.m. You will have until 4:00 p.m. to explore on your own with the Discovery Pack	1 ½ hours	Tuesday Thursday Saturday
Kids Rock!  				
This program offered June 13–August 14.				
Join a ranger for fun activities exploring the wonders of the natural world at Grand Canyon. Rangers lead children ages 7-11 through games and activities in a fun educational experience. Possible themes include fire ecology, water, insects, bats, and much more! Program offered June 13–August 14.	Shrine of the Ages at the west end of Parking Lot A	10:00 a.m.	1 hour	Daily
Storytime Adventures  				
This program begins June 13.				
Hear a ranger reading fun children's books about Grand Canyon. Props and interactive games bring the stories to life. This program is for families with children ages 2-6. Children receive a condor tattoo or sticker. Program begins June 13.	Porch on the rim side of El Tovar Hotel	1:00 p.m.	30 minutes	Daily
Way Cool Stuff for Kids  				
This program begins June 13.				
Join a ranger for interactive games and fun activities designed to introduce children ages 7-11 to the way cool environment of Grand Canyon. Themes—including animal adaptations, predator-prey relationships, invasive species, and more—promote an appreciation of the outdoors and our national parks. Program begins June 13.	Shrine of the Ages at the west end of Parking Lot A	4:00 p.m.	1 hour	Daily
Special Programs – Grand Canyon Village				
Full Moon Walks and Star Talks   				
See page 7 for sunset times and moon phase dates.				
During nights around the full moon and new moon, rangers may offer moon walks and star talks at the Yavapai Geology Museum. Programs are offered as staffing allows around new and full moons. Check at the visitor centers for details. Dates of moon phases are on page 7.	Yavapai Geology Museum	Varies	1 hour	Around new and full moons
Graveyard Walk  				
During nights around the full moon, rangers may offer a moonlight tour of Grand Canyon's historic Pioneer Cemetery. Check at any visitor center to see if this casual stroll is scheduled. Programs are offered as staffing allows around the full moon. Full moon dates are found on page 7.	Pioneer Cemetery , west of Shrine of the Ages	9:00 p.m.	1 hour	Around full moons
Additional Programs				
As staffing permits, rangers will offer additional programs which may include fossil walks, Kolb Studio tours, condor programs, and family night hikes as staffing is available. Look for signs in the Village area or at the visitor centers to confirm times and availability.	Locations vary	Varies	Varies	Varies

Ranger Programs, continued

Desert View and Tusayan Museum

Glimpses of the Past

Have you ever wondered how 800 years ago people found food, water, and shelter? Join a ranger to explore the remains of an ancestral Puebloan village and envision a thriving community in this harsh and demanding environment. This walk entails a journey on a 0.1 mile (0.2 km) flat, paved trail.

Tusayan Museum , 3 miles (5 km) west of Desert View	11:00 a.m. and 3:30 p.m.	30 minutes	Daily
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Cultural Connections

The story of human experience at Grand Canyon spans the last 12,000 years. Bring your imagination and explore people stories, past and present.

Tusayan Museum , 3 miles (5 km) west of Desert View	2:00 p.m.	20 minutes	Daily
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The Spirit of Sunset

See page 7 for sunset times.

Tranquility... Inspiration... Spectacular colors and the natural sounds of the canyon. Leave the crowds behind and end your day at Desert View. Each ranger's passion for one of the canyon's unique facets is presented during this program. Wear weather appropriate clothing. See page 7 for sunset times.

Desert View Point near the Watchtower	1 hour before sunset	45 minutes	Daily
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Inside the Canyon You must hike or ride the mules to these locations.

Phantom Ranch

Programs are given daily at Phantom Ranch, reachable only by hiking or riding the mules to the bottom of the canyon. Talks cover a wide range of natural and cultural history topics. Upon arrival, check the Bright Angel Campground bulletin board or the Phantom Ranch Canteen for program locations and subjects.

Phantom Ranch	4:00 p.m.	45 minutes	Daily
	7:30 p.m.	45 minutes	Daily

Children must be accompanied by an adult on all programs.

 These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger award. Any ranger program, however, will meet the requirement on page 2 of the Junior Ranger Activity Booklet.

 All outdoor programs may be canceled during rain, snow, or lightning storms.

 These programs are wheelchair accessible with assistance. Wheelchairs may be checked out at the Grand Canyon Visitor Center free of charge.



South Rim Star Party: June 5–12

Celebrate northern Arizona's clear, dark night skies during the 20th annual Grand Canyon Star Party at Yavapai Point. Tucson Amateur Astronomy Association volunteers offer an optional slide presentation at 8:00 p.m., followed by telescope viewing well into the night. Dress warmly. A flashlight and something to sit on are recommended. As vehicle headlights disturb the viewing and parking is extremely limited, please walk to the Yavapai Geology Museum parking area or arrive by the Village Route shuttle bus that runs until 11:00 p.m.

Puppet Theater: July 5–12

Shrine of the Ages Auditorium, parking lot A
2:00 p.m.

CANYON CONDOR is a fun puppet show about the mighty, magnificent condor. Baby Boo hatches from his egg and, as he grows, learns about the life and history of condors in the Grand Canyon. Entertaining, musical, and informative!

Canyon Condor puppeteers Nancy Smith and Gwen Bonar, mother and daughter, are frequent backpackers in the Grand Canyon. On their first rim-to-rim hike, they encountered a California condor near Plateau Point and became fascinated with this amazing bird. They developed the script for *Canyon Condor* with the help of the National Park Service, Arizona Game and Fish Department, and the Peregrine Fund. The Puppeteers of America Endowment Fund provided additional support.

The Great Arizona Puppet Theater, founded in 1983 in Phoenix, celebrates Arizona's heritage, culture, and ecology. Previously presented environmental shows teach children about saving water in the desert, the importance of the saguaro cactus to the Sonoran Desert, and threatened and endangered animals in Arizona.



Special Programs

Digital Photography Workshops: July 4–24

The National Park Service hosts Canon and American Park Network in presenting free digital photography workshops. Join a photo walk with seasoned professionals who share their experience taking landscape and wildlife photographs using the latest digital technology.

The daily programs are led by a team of experienced photography instructors, including Larson Harley, Stephanie Obernesser, Federico Pardo, Erika Skogg and Charles Turner, who apply their classroom and educational experience to the field and have the gift of explaining complex concepts in simple, easy-to-understand language. By attending a photo walk, you will not only learn to improve your photo composition skills, but also be inspired by the instructors who lead them.

No cameras are necessary. Canon provides digital single-lens reflex bodies and lenses for all participants. Please arrive approximately 15–30 minutes before the class begins to receive your equipment. All participants are invited to print their favorite images after their class and they may download from the Photography in the Parks web site when they get home.

Photo Walks

When: July 4–24, 8:30 a.m., 12:30 p.m., and 5:30 p.m. daily (No 5:30 program on July 24)

Where: Meet in the plaza area at Canyon View Information Plaza

Duration: 1–2 hours



Canon



Kolb Studio Art Exhibits

Canyon Magic: Landmark Art from the Picerne Collection through June 20

A premier exhibit featuring early twentieth century paintings of Grand Canyon, one of the world's most recognizable and beautiful landscapes. Various styles are represented including several pieces by well-known landscape artists such as Gunnar Widforss and James Swinnerton.

Grand Canyon's Green Heart: The Unsung Legacy of Plants July 2 - August 31

Best known for its grand vistas and geologic wonders, the Grand Canyon is also home to more than forty percent of all the plants that occur in Arizona. Often eye-catching, sometimes treacherous, plants achieve the extraordinary feat of transforming sunlight into energy, thus serving as the basis for all animal life on Earth.

This exhibition is an introduction to the fascinating world of Grand Canyon plants and the botanists who have studied and protected them. Stop by Kolb Studio to enjoy this celebration of the art of botanical illustration.

The Grand Canyon Association and National Park Service sponsor the free exhibits at Kolb Studio.



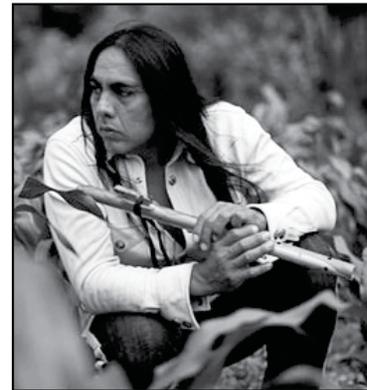
Tusayan flameflower, Joan LaMoure

27 Years of Music at the Canyon

The Grand Canyon Music Festival celebrates its 27th season August 27–September 12 with weekend concerts in the Shrine of the Ages auditorium at 7:30 p.m.

The Festival also presents the tenth season of its *Native American Composer Apprentice Project* with music education programs at Navajo and Hopi Reservation schools. Music Festival performers will work with students at the Grand Canyon Unified Schools for the fourth season of the *School of Rock*. The Grand Canyon Music festival recently received the 2010 Governor's Arts Award for Arts in Education for these outreach programs to rural and underserved schools.

For programming notes and ticket information, visit the Music Festival's web site at



www.grandcanyonmusicfest.org or call (800) 997-8285. Tickets are also available from the concierge at El Tovar Hotel or at the door the night of each performance.

August 27 and 28 A champion of the music of Native American composers, Italian pianist Emanuele Arciuli performs music by composer-in-residence, Raven Chacon. Mr. Chacon also performs his own music, influenced by his Navajo heritage. Mr. Arciuli will be joined by cellist Astrid Schween and violist Susanna Gilmore in performances of works by Smetana, Bartok, Ballard, and Ravel.

September 3 and 4 The Newman & Oltman Guitar Duo and special guests celebrate Music of the Americas in anticipation of Hispanic Heritage Month.

September 10 and 11 String band ETHEL's TruckStop™ with two-time Grammy Award winner Robert Mirabal (Native American flute, left) and Grammy Award winner Jeff Petersen (Hawaiian slide guitar).

September 12 ETHEL presents the world preview concert of the compositions from the Navajo and Hopi student participants in the Native American Composer Apprentice Project. Do not miss this inspiring, free event.

Check the web site for other events including the Tusayan Shindig and School of Rock.

Coming in September Grand Canyon Celebration of Art

The second annual *Grand Canyon Celebration of Art* features thirty artists from around the country in a plein air demonstration, competition, exhibit, and sale. This event provides an opportunity for visitors to see and purchase the works of outstanding artists as they capture the beauty of this timeless landscape.

September 11–16: Artists paint along the rim

September 16: Evening program with selected artists

September 17: Quick Draw competition and auction

Through November: Exhibit in Kolb Studio

Proceeds support the funding of a new permanent art venue to preserve and showcase the art collections of the National Park Service and Grand Canyon Association.

Check the Grand Canyon Association web site, www.grandcanyon.org for more information.



Enjoying Grand Canyon



Accessibility

An accessibility permit, allowing access to some areas closed to public traffic, is available at entrance gates, the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, Park Headquarters, Kolb Studio, El Tovar Concierge Desk, and the Bright Angel Lodge, Yavapai Lodge, and Maswik Lodge Transportation Desks.

Day-Use Wheelchairs

The National Park Service provides wheelchairs at no charge at the Grand Canyon Visitor Center at Canyon View Information Plaza.

Accessible Tours

Wheelchair-accessible tours are available by prior arrangement. Contact any lodge transportation desk or call (928) 638-2631 for information. TDD telephones are available to hotel guests in the park.

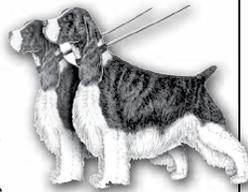


Pets Must Be Leashed at All Times

Leashed pets are allowed on rim trails throughout the developed areas of the South Rim, but not below the rim. The only exception is service animals.

Persons wishing to take a service animal below the rim must check in first at the Backcountry Information Center.

Kennels are available.
Telephone: (928) 638-0534.



Planning Your Grand Canyon Visit More details on page 20

Individual interests, available time, and the weather can influence your visit. Use the information in this publication and talk with a ranger in one of the visitor centers to help make your Grand Canyon experience memorable.

If you have only an hour or two

Go to one of the viewpoints and immerse yourself in the view. Walk a short distance along the Rim Trail and watch the changing patterns of light and shadow in the canyon.

If you have half a day

Stop at one of the visitor centers and learn more about the geology or history of the area. Participate in a ranger program. Ride the Hermits Rest Route shuttle to Hermits Rest, getting off at the Monument Creek Vista stop and walking or bicycling the Greenway Trail to Pima Point.

If you have all day

Walk a short distance down the Bright Angel or South Kaibab Trails, keeping in mind that it is much easier walking down than climbing back up. Drive east on Desert View Drive, enjoying the overlooks along the way and stopping at Tusayan Museum and the Desert View Watchtower. Be at one of the viewpoints an hour before sunset to savor the changing colors and shadows. Help your children attain their Junior Ranger badge.

If you have two or more days

The canyon is yours to enjoy and explore. Rise early and take in a sunrise. Hike a trail and notice how much warmer it becomes as you descend into the canyon. Venture away from the popular viewpoints and experience the quiet of the canyon. Attend a couple of ranger-led activities, ending your day with the Evening Program.

Would you like to be a Junior Ranger?

The National Park Service offers a Junior Ranger program for children ages 4 and older.

To take part in the program, pick up a *Junior Ranger Activity Book* at the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum information desk and complete the activities listed for the appropriate age level.

Once completed (don't forget attendance at one or more ranger programs) bring the booklet back to the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum to receive an official Junior Ranger certificate and badge.



Environmental Education Class Field Trips and Teacher Workshops

The Environmental Education staff invites teachers and students to take advantage of our free educational resources. We offer nine ranger-led field trip programs at the canyon covering geology, ecology, and history topics. Programs are designed for grades K-7, are curriculum based, and address Arizona academic standards. Advanced reservations are required. These programs are popular, so contact the park as soon as possible to schedule your trip. Rangers may be available for pre-visit classroom presentations.

Free teacher workshops cover suggested pre- and post-visit activities, as well as walk-throughs of the programs at the canyon. Park staff conducts workshops several times each year. For more information or to make reservations for either a park visit or a teacher workshop call (928) 638-7662 or visit www.nps.gov/grca/forteachers/index.htm.



Avoid a Shocking Experience



Lightning strikes are common on the South Rim during summer thunderstorms. Stay away from exposed points during storms. Hair standing on end is a warning that an electrical charge is building near you and a warning that lightning may strike. If this occurs, move away from the rim immediately! The safest place to be during a thunderstorm is inside a building or a vehicle with the windows closed. Avoid touching metal railings when lightning activity is nearby. For more information, a *Lightning Awareness* brochure is available at all visitor centers.

Cell Phone Tour

Your cell phone provides another way to learn more about Grand Canyon National Park. You can listen to a narration over your cell phone at numerous points of interest on the South Rim between Maricopa and Yaki Points.

Wherever you see a cell phone tour sign, dial (928) 225-2907 and enter the indicated stop number. You will hear an interpretive ranger give a two-minute synopsis on various aspects of the canyon from geology to Native American history to the night sky.

There is no additional charge to listen to these messages. Please be aware that cell phone coverage can be spotty and not all providers offer service in the park.



Enjoying Grand Canyon

Information Centers

(see pages 2 – 4 for ranger programs at these locations)



Kolb Studio

Open daily 8:00 a.m. to 8:00 p.m.

Once the home and business of the Kolb brothers, pioneering photographers at Grand Canyon, this building has been restored. Visit the free art exhibits in the auditorium and shop in the bookstore. Kolb Studio is located in the Village Historic District, at the Bright Angel Trailhead. See page 5 for art exhibits displayed here. Free admission.



Verkamp's Visitor Center

Open daily 8:00 a.m. to 8:00 p.m.

This visitor center resides in one of the oldest buildings on the South Rim. The Verkamp family operated Verkamp's Curios for more than 100 years. The building now features displays telling the history of Grand Canyon Village and a bookstore. See pages 2 – 3 for ranger programs beginning here.



Yavapai Geology Museum

Open daily 8:00 a.m. to 8:00 p.m.

How old is the canyon? How did it form? The exhibits at Yavapai Observation Station answer these and other geology questions. The historic building, located one mile (1.6 km) east of Market Plaza, features expansive canyon views. The bookstore offers a variety of materials about the area. See pages 2–3 for ranger programs beginning here.



Canyon View Information Plaza

Grand Canyon Visitor Center open daily 8:00 a.m. to 6:00 p.m.

Books and More bookstore open daily 8:00 a.m. to 8:00 p.m.

Start your visit at Grand Canyon Visitor Center and Books and More bookstore. Use the ample nearby parking or ride the shuttle buses. View the outdoor exhibits at any time. Watch for construction in the visitor center and Mather Point areas.



Tusayan Museum

Open daily 9:00 a.m. to 5:00 p.m.

A visit to Tusayan Ruin and Museum provides a look into the lives of a thriving community as illustrated by its pottery, seashell bracelets, corncocks, and arrowheads. Art from today's tribes provides a glimpse into their rich cultures. The museum is located three miles (5 km) west of Desert View. Free admission. See page 4 for programs beginning here.



Desert View Visitor Center

Open daily 9:00 a.m. to 5:00 p.m.

The park's newest visitor center and bookstore is scheduled to open mid-June, welcoming visitors to the east entrance and Mary Colter's Watchtower.

A passport cancellation stamp is available at all above locations.

Canyon's Best Bargain: The Free Shuttle Bus System

For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. The buses use compressed or liquefied natural gas, a clean burning fuel. Buses have provisions for improved accessibility and can accommodate most wheelchairs. All shuttles have racks for up to three bicycles. Riding the shuttles makes your stay more enjoyable, while reducing pollution and decreasing traffic congestion.



How do I use the shuttles?

The map on pages 10 – 11 is the key. The map shows routes, stops, operating times, and route lengths. Park your vehicle in one of the parking areas, proceed to the nearest bus stop, and board the next bus. The buses come by every 10–20 minutes. You do not need to obtain a ticket, and you are free to get on or off at any stop. You can ride to a stop, enjoy the view, shop at a gift store, or walk along the rim, then hop on a later shuttle.

Where do the shuttles go?

Four shuttle routes operate during the summer. The routes do not overlap, although they interconnect. Buses show the route name on the front and display an appropriately colored square near the door.

Hermits Rest Route (red)

The western-most route winds seven miles along the rim to Hermits Rest, stopping at viewpoints along the way.

Village Route (blue)

This loop connects visitor centers, lodging, restaurants, gift shops, and campgrounds. It provides the best means to get to many of the ranger programs.

Kaibab Trail Route (green)

Leaving from Canyon View Information Plaza, this route goes to the South Kaibab Trailhead and two viewpoints to the east.

Tusayan Route (purple)

This shuttle travels between Canyon View Information Plaza to the gateway community of Tusayan with four stops in Tusayan.

Sunrise & Sunset

Date	Sunrise	Sunset
May 30	5:14 a.m.	7:39 p.m.
June 6	5:12 a.m.	7:43 p.m.
June 13	5:11 a.m.	7:46 p.m.
June 20	5:12 a.m.	7:49 p.m.
June 27	5:14 a.m.	7:49 p.m.
July 4	5:17 a.m.	7:49 p.m.
July 11	5:21 a.m.	7:47 p.m.
July 18	5:25 a.m.	7:44 p.m.
July 25	5:30 a.m.	7:39 p.m.
August 1	5:36 a.m.	7:33 p.m.
August 8	5:41 a.m.	7:26 p.m.
August 15	5:47 a.m.	7:18 p.m.
August 22	5:53 a.m.	7:10 p.m.
August 29	5:58 a.m.	7:00 p.m.
September 5	6:03 a.m.	6:50 p.m.

Moon Phases

New moon	Full moon	Moon rise
June 12		
	June 25	7:31 p.m.
July 11		
	July 25	7:28 p.m.
August 9		
	August 24	6:56 p.m.

September 8

All times are Mountain Standard Time.

Park News

Superintendent's Greeting



Summer is always an exciting time to visit Grand Canyon National Park. The long, warm days encourage exploration. Hike a trail, participate in a ranger activity, watch a sunrise or sunset, or experience the majesty of a thunderstorm. Sit on a sunny rock and listen to the wind, envy the soaring ravens and condors, and try to identify the languages spoken by other visitors. Ride the free shuttle buses throughout the South Rim.

This summer we will open a new visitor center and bookstore at Desert View, near the East Entrance. By remodeling a historic structure, we can offer visitors coming from the east a spot to talk with rangers to plan their visit to the South Rim and peruse the offerings of the Grand Canyon Association bookstore.

Throughout the summer a construction project at Mather Point will provide an accessible trail to Mather Point for visitors using wheelchairs. Other improvements at Mather Point include more picnic areas, a rest room closer to the rim, and an open air amphitheater. At Grand Canyon Visitor Center work begins on a theater. By next year visitors will view an orientation film. Please be careful when exploring in these construction areas.

Grand Canyon is an icon of the efforts of the American people to preserve and share the amazing natural landmarks of our country. Enjoy your visit to your national park.

Steve Martin, Superintendent
Grand Canyon National Park

Grand Canyon Association

**Inspired by the canyon?
Become involved and be a part
of something grand!**

The Grand Canyon Association is a nonprofit membership organization created to inspire and educate people to protect Grand Canyon National Park for the enjoyment of visitors and Grand Canyon enthusiasts around the world. Here is how you can become involved:

SHOP

You can help Grand Canyon and learn more about the park by purchasing books and other items from Grand Canyon Association bookstores or online. Proceeds from sales benefit the educational, scientific, historical, and research efforts of the National Park Service. Members receive a 15% discount at all Grand Canyon Association bookstores and our online store: www.grandcanyon.org.

EXPLORE

The Grand Canyon Field Institute, the Grand Canyon Association's long-standing outdoor education program, provides great opportunities to learn about, volunteer in, and explore Grand Canyon. Member discounts are available for most classes offered by the field institute. www.grandcanyon.org/fieldinstitute

DONATE

When you become a member of the Grand Canyon Association, you join a community of people passionate about protecting and sharing the grandeur of Grand Canyon. With donor and member support, the Grand Canyon Association cooperates with the National Park Service to fund a variety of projects and programs—trail restoration, wildlife monitoring, ecological restoration, support for the arts, and historic building preservation.

Take part in preserving Grand Canyon for future generations. Join the Grand Canyon Association today! To become a member or to make a donation, call 800-858-2808 or visit www.grandcanyon.org.



**Grand
Canyon
Association**
Inspire. Educate. Protect.

BE A PART OF SOMETHING GRAND

Help us protect one of the Seven Natural Wonders of the World.
Become a Grand Canyon Association member today!

www.grandcanyon.org
800-858-2808

GRAND CANYON ASSOCIATION

INSPIRE. EDUCATE. PROTECT.

National Park Service photo by Michael Quinn

Park News

Artist in Residence: Inspired by the Park

Few places have provoked as much wonder and creativity as Grand Canyon. The National Park Service at Grand Canyon National Park hosts two Artist-in-Residence (AiR) programs—a seasonal program on the North Rim, and a year-round program on the South Rim. Artists, selected through a formal process by a jury of professionals, are awarded three-week residencies. During his or her time at the canyon, each artist or collaborative group has focused studio time to pursue individual projects and presents programs focused on the art for visitors.

The South Rim AiR program hosts these participants during the 2010 summer season. Check at the visitor centers or watch for announcements for Artist-in-Residence programs.

June: Painter David Alexander, Lake Country, British Columbia. While in residence, David plans to hike daily, soaking up the dramatic geology and southwestern color palette. Working in the studio on the rim in the evenings, he will capture what he has sketched and seen throughout the day. His public presentations include two evening programs focusing on his work, as well as a hands-on, family friendly sketch walk (materials provided) held on the rim.

July: Media artist Andrew Demirjian, Palisades Park, New Jersey. Andrew will be working on his on-going series, *Audio Landscapes*, collecting video, audio recordings, and digital photography, with the goal of exploring how elevation changes alter the sonic environment



within the dramatic canyon landscape. His public presentations include one mixed media evening program presentation of past projects as well as the work he has begun while here in-residence and two all-ages, daytime, audio walking tours, focusing on listening and recording the sounds encountered on the rim.

August: Writer Rick Kempa, Rock Springs, Wyoming. Rick will continue his previously pieced-together collection of personal essays about his 35-year hiking history in Grand Canyon. For his public outreach he will present three evening programs featuring readings from these essays. Two will be at Mather Amphitheater on the rim and one in the bottom of the canyon at Phantom Ranch for his fellow hikers.

Artists working in all genre including, but not limited to, visual art, dance, new media, music, and writing are encouraged to apply. For more information about Grand Canyon's AiR program, please visit our web site www.nps.gov/grca/supportyourpark/air.htm.

Overnight Programs for Youth Get Behind the Scenes and into the Wild!

Youth can attend summer camps where they ride the raging rapids of the Colorado River, dig into scientific field work, and find inspiration in Grand Canyon's wild spaces. The National Park Service and its partners, Grand Canyon Youth and Parks in Focus, send park rangers, photographers, and scientists to guide youth on these unique adventures. In addition to fun treks and boat rides, the youth complete projects during the camps that allow for direct experiences with the park's valuable natural and historic resources. Students in 2009 worked on planting projects, collecting sound data, restoring a historic ranger cabin, and documenting wildlife sightings. The data collected by students directly contributes to the park scientists' knowledge and management of the canyon's resources.

The hands-on experiences inspire a sense of wonder and stewardship as well as a curiosity for the natural world. The adventure empowers youth, and along with new experiences, the

youth walk away with a group of friends from all over the country and memories to last a lifetime.

This summer, high school youth in the *Rim to River* program will spend a week on the rim of the canyon and a week on the river, discovering the story behind the science and exploring hidden stretches of rim and river. High school youth participating in the *Grand Inspiration* program will experiment with different art genres while rafting down the Colorado River and creating their own artwork inspired by the matchless beauty of the canyon. Finally, middle school youth will discover the immensity of the canyon through the lens of a camera during *Grand Canyon in Focus*, a hiking and backpacking camp for members of Boys and Girls Clubs from Phoenix and Tucson, Arizona.

Camps offered with Grand Canyon Youth have open enrollment for high school youth. More information on camps is available on the following web sites: www.gc youth.org or www.nps.gov/grca/forkids/camp.htm.



Rent a Bicycle on the South Rim!

Bicycling is a great way to actively explore the South Rim of Grand Canyon. Riding a bike gives you the freedom to explore the less crowded view points and avoid the congested parking lots. Bright Angel Bicycles offers high quality bicycles to accommodate riders of all sizes and abilities. Men's, women's and children's frame sizes are available, as are pull-behind child trailers for children under eight years of age. As a service to visitors of various physical abilities we also offer adult tricycles. Come enjoy the best new way to see Grand Canyon!

Where can I rent a bicycle?

Bright Angel Bicycles is located in Canyon View Information Plaza. Ride the free shuttle bus or park in a nearby lot.

When can I rent a bicycle?

Bright Angel Bicycles offers bicycle rentals seven days a week April through October weather permitting. Hours of operation for this summer are:

May–September 8:00 a.m. to 6:00 p.m.

Where can I ride a bicycle on the South Rim?

Rental bicycles are permitted on all paved roadways and Greenway Trails in the park. Bicycles are NOT permitted on the Rim Trail and all hiking trails into the canyon.

Bright Angel Bicycles is happy to offer round-trip shuttle service to Hermit Road which features excellent canyon views

and is closed to most private vehicle traffic.



Can I take a bicycling tour?

Bright Angel Bicycles offers two-hour guided tours on Hermit Road. The tour features bicycle rental, round trip shuttle service from the rental office to Hermit Road, and knowledgeable guides. The 5.6 mile / 9 km ride begins at Hopi Point and continues to Hermits Rest, highlighting Grand Canyon's rich natural and human history while taking in incredible views of the Colorado River and the canyon. The ride to Hermits Rest has only moderate hills and is a great trip for the family.

Park Science

Flat, Dead Plants Tell a Story

Every day of the year, somewhere in Grand Canyon, a plant is blooming. During the winter, you might have to seek them out, but you can find the glorious signs of life in the depths of the canyon, even when the rims are blanketed with snow. Humans have sought plants since the earliest times. Sometimes for food and survival, but also in an often passionate pursuit of knowledge.

It may sound contradictory, but a flat, dry, dead plant glued to a piece of paper is one of the best



ways to learn what plants grow in an area. These preserved herbarium specimens (*left*) contain information about where the plant samples were collected, what time of year, and what other plants were growing around them, providing insight about the diversity and distribution of plants.

Grand Canyon's herbarium contains more than 11,000 specimens. Alice Eastwood, a self-taught botanist, collected the oldest dated specimen in 1913. Three years later, J.J. Thornber collected four specimens along the Bright Angel Trail; Leslie Goodding collected two plants near El Tovar Hotel. Documentation began in earnest in 1927 when Edwin McKee, serving as an intern, worked with scientists to develop interpretive programs for Grand Canyon National Park. McKee went on to formally study geology, but at heart, he was an all-around naturalist with a keen eye for observation.

Just a year later, others started joining the hunt for plants. Pauline Mead Patraw began collecting, from which she later produced a plant list for the park. Patraw (*right*) became the park's first woman naturalist in 1929, sharing her knowledge of plants with visitors around the campfire.

Donald McHenry, a park naturalist with a Master's Degree in botany, added to the

collection from 1932-35, during which time he also created a native plant garden on the South Rim that featured plants from the park's various life zones. Although known mostly for his work in wildlife biology, Albert Hawbecker collected hundreds of plant specimens in 1935.

While there were others who strategically sought out plants, Rose Collom roamed far and wide beginning in 1938, often carrying a large stack of plant specimens with her. Under a grant from the Grand Canyon Natural History Association (now Grand Canyon Association), Rose added 954 plants to the herbarium and greatly expanded our knowledge of the park's floral diversity.



While Rose explored via automobile and on foot, Elzada U. Clover, a University of Michigan botany professor, and graduate student Lois Jotter joined Norm Nevills on a 1938 Colorado River expedition. Clover and Jotter collected hundreds of specimens, including the thorny and difficult cacti, as they completed the first systematic collection and documentation of plants along the Colorado River corridor in the park. They were also the first women to successfully traverse the Colorado River's entire length, through Cataract, Glen, and Grand Canyons.

The history of documenting plants in Grand Canyon continues into the present day. In just the last decade, thousands of specimens have been added to herbarium. Because of those specimens collected over the decades, more than 1750 plant species have been identified in the park, the greatest diversity of any national park unit in the United States.

All of the plant records are all available to the public via the internet at <http://swbiodiversity.org/seinet/collections/index.php>.

Learn more about the history of botany and the wonderful floral diversity of Grand Canyon this summer at Kolb Studio beginning on July 2.

Conserving the Endangered Humpback Chub

The National Park Service began a multi-year project to translocate juvenile humpback chub in June 2009, when 302 chub from the Little Colorado River were released in Shinumo Creek. An additional 300 fish are scheduled to be released in June 2010. The goal of this experiment is to restore native fish populations. While the long-term results of the Shinumo Creek translocation experiment will only be known after several years of monitoring, the preliminary data from the 2009 effort show that this conservation effort so far has been successful.

The humpback chub (*Gila cypha*), an unusual-looking member of the minnow family, is found only in the Colorado River basin. These fish, which can live as long as 30 years and reach lengths of almost 20 inches (51 cm), are characterized by large fins and pronounced humps behind the heads of adults. The humpback chub is adapted to the river's natural

conditions—high turbidity, and seasonally variable flows and temperatures. In Grand Canyon, these fish face an ecosystem altered by Glen Canyon Dam and competition with and predation by non-native fish.

Most humpback chub in Grand Canyon live in the Colorado River near the confluence of the Little Colorado River, with its warmer water. Water released from Glen Canyon Dam in the Colorado River is too cold for successful reproduction. Historically humpback chub would have used other tributaries besides the Little Colorado River, but currently nonnative fish may exclude chub from suitable tributaries.

The 2009 translocation of humpback chub to Shinumo Creek was the first relocation to another Grand Canyon tributary. Prior to releasing humpback chub into Shinumo Creek, biologists surveyed the existing fish community and removed non-native fish. After being

released, the humpback chub began feeding and behaving naturally almost immediately.

In the months following the translocation, biologists observed large groups of humpback chub in the release areas. The young humpback chub appeared to have grown exceptionally well, indicating the availability of suitable temperatures and adequate food in Shinumo Creek.



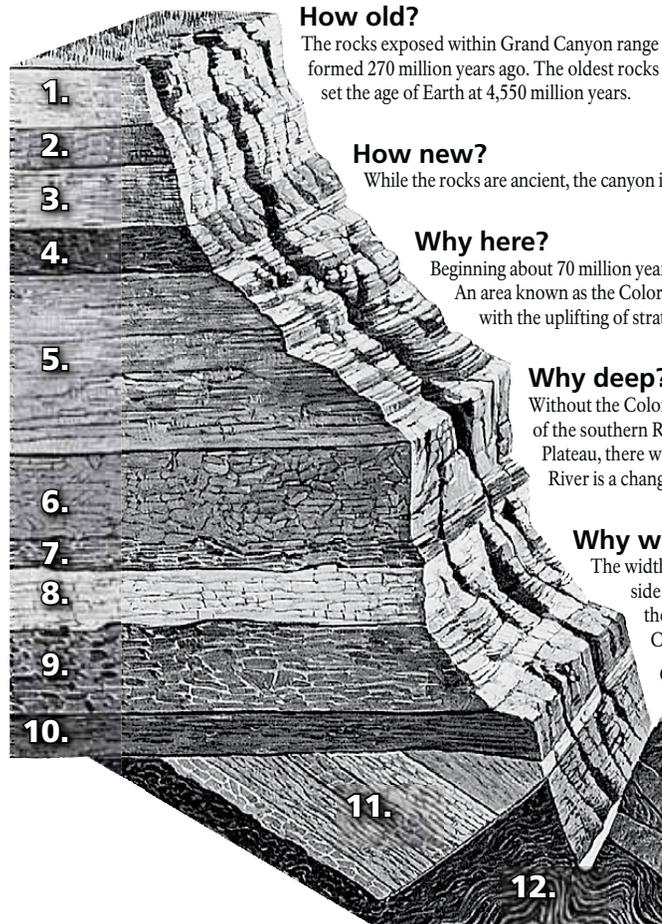
Following the second translocation to Shinumo Creek, planned for this June, biologists will continue monitoring the survival, growth, and movements of these juvenile humpback chub to determine the success of the experiment. If the Shinumo Creek translocation is ultimately successful, this conservation tool may become an important part of the recovery efforts for this Colorado River native.

This project, funded by the National Park Service and the Bureau of Reclamation, is being conducted in cooperation with the U.S. Fish and Wildlife Service, Kansas State University, Arizona Game and Fish Department, and Grand Canyon Wildlands Council.

Young humpback chub in Shinumo Creek

Park Science

There's Only One Grand Canyon: Basic Answers to Your Geologic Questions



How old?

The rocks exposed within Grand Canyon range from the fairly young to the fairly old (geologically speaking). Kaibab limestone, the caprock on the rims of the canyon, formed 270 million years ago. The oldest rocks within the Inner Gorge at the bottom of Grand Canyon date to 1,840 million years ago. For comparison geologists currently set the age of Earth at 4,550 million years.

How new?

While the rocks are ancient, the canyon is young. Geologists generally agree that canyon carving occurred over the last 5–6 million years—a geologic blink of the eye.

Why here?

Beginning about 70 million years ago, heat and pressure generated by two colliding tectonic plates induced mountain building in western North America. An area known as the Colorado Plateau was raised more than 10,000 feet (3,000 m), but was spared most of the deformation and alteration associated with the uplifting of strata. This high plateau, so critical to Grand Canyon's story, is a geological puzzle that researchers still seek to understand.

Why deep?

Without the Colorado River, a perennial river in a desert environment, Grand Canyon would not exist. Water draining off the western slopes of the southern Rocky Mountains carried sand and gravel, cutting down through the layers of rock. Without the uplift of the Colorado Plateau, there would not have been the thousands of feet of topography to sculpt. From Yavapai Point on the South Rim to the Colorado River is a change of 4,600 feet (1,400 m), yet the river still flows 2,450 feet (750 m) above sea level.

Why wide?

The width results from the rock layers collapsing around the river and its tributaries combined with the "headward erosion" of these side streams. Softer, weaker layers erode faster, undermining the harder, stronger layers above them. Without adequate support, the cliffs collapse. The relentless river carries this eroded material to the Gulf of California. Much of what is now southeastern California and southwestern Arizona is covered with material eroded from Grand Canyon.

Over its 277 river miles (446 km), the jagged Grand Canyon varies in width. Along the South Rim, it ranges between 8 and 16 miles (13–26 km) depending upon where you choose to measure.

Why Grand?

Often described as Earth's greatest geological showcase, the ensemble of stunning dimensions—the melding of depth, width, and length—sets Grand Canyon apart. Nowhere else features such a dazzling variety of colorful rock layers, impressive buttes, and shadowed side canyons. Grand Canyon is the canyon against which all other canyons are compared.

The exhibits at Yavapai Geology Museum explain the geologic processes that formed the rocks and carved the canyon.

Illustration:

1. Kaibab Formation	.....	270 million years
2. Toroweap Formation	.....	273 million years
3. Coconino Sandstone	.....	275 million years
4. Hermit Formation	.....	280 million years
5. Supai Group	.....	315 – 285 million years
6. Redwall Limestone	.....	340 million years
7. Temple Butte Formation	.....	385 million years
8. Muav Limestone	.....	505 million years
9. Bright Angel Shale	.....	515 million years
10. Tapeats Sandstone	.....	525 million years
11. Grand Canyon Supergroup	.....	1,200 million – 740 million years
12. Vishnu basement rocks	.....	1,840 – 1,680 million years

Want to know more?

The geologic story is rich in detail and mystery. Attending a free ranger program may move you from wonder to comprehension. Programs are described on pages 2–4.

Grand Canyon Association bookstores offer many geology related titles. Bookstore hours and locations are listed on page 7. To learn more about geology at Grand Canyon, take a look at:

- *Yardstick of Geologic Time*, Allyson Mathis
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Ancient Landscapes*, Ron Blakey and Wayne Ranney

Grand Canyon Village Shuttle Bus Routes, Points



Free Shuttle Buses



Free shuttle buses operate on four routes on the South Rim: Hermits Rest Route (indicated in red on the map above), Village Route (blue), Kaibab Trail Route (green), and Tusayan Route (purple). The routes interconnect, but do not overlap. No tickets are required, and shuttle stops are clearly marked throughout the park by signs with the above symbol.

Buses are white with a green stripe. The buses display the route name on the front and an appropriately colored square near each door.

All buses are equipped with bicycle racks. Bicycle one way and ride the shuttle the other.

Pets are not permitted on buses.

Service may be suspended during inclement weather.

Hermits Rest Route

Buses provide transportation between the Village Route Transfer and Hermits Rest (seven miles; 11 km) with stops at nine canyon overlooks. Buses stop only at Hermits Rest, Pima, Mohave, and Powell Points on return.

75 minutes round-trip (without getting off bus)

May buses run every:

30 minutes 4:30 a.m. to 7:30 a.m.
15 minutes 7:30 a.m. to sunset
30 minutes sunset to one hour after sunset

June, July, and August buses run every:

30 minutes 4:15 a.m. to 7:30 a.m.
15 minutes 7:30 a.m. to sunset
30 minutes sunset to one hour after sunset

September buses run every:

30 minutes 5:15 a.m. to 7:30 a.m.
15 minutes 7:30 a.m. to sunset
30 minutes sunset to one hour after sunset

Village Route

Buses provide transportation between Canyon View Information Plaza, Yavapai Point, hotels, restaurants, campgrounds, parking lots, and other facilities in the Village area. This is not a scenic route, but rim views are available a short walk from many stops.

60 minutes round-trip (without getting off bus)

May buses run every:

30 minutes 4:30 a.m. to 6:30 a.m.
15 minutes 6:30 a.m. to 7:30 p.m.
30 minutes 7:30 p.m. to 10:00 p.m.

June, July, and August buses run every:

30 minutes 4:15 a.m. to 6:30 a.m.
15 minutes 6:30 a.m. to 9:00 p.m.
30 minutes 9:00 p.m. to 11:00 p.m.

September buses run every:

30 minutes 5:15 a.m. to 6:30 a.m.
15 minutes 6:30 a.m. to 7:30 p.m.
30 minutes 7:30 p.m. to 10:00 p.m.

Kaibab Trail Route

Buses provide transportation between Canyon View Information Plaza, South Kaibab Trailhead, Yaki Point, and Pipe Creek Vista. This is the shortest scenic route and the only access to Yaki Point.

30 minutes round-trip (without getting off bus)

May buses run every:

30 minutes 4:30 a.m. to 6:30 a.m.
15 minutes 6:30 a.m. to one hour after sunset

June, July, and August buses run every:

30 minutes 4:15 a.m. to 6:30 a.m.
15 minutes 6:30 a.m. to one hour after sunset

September buses run every:

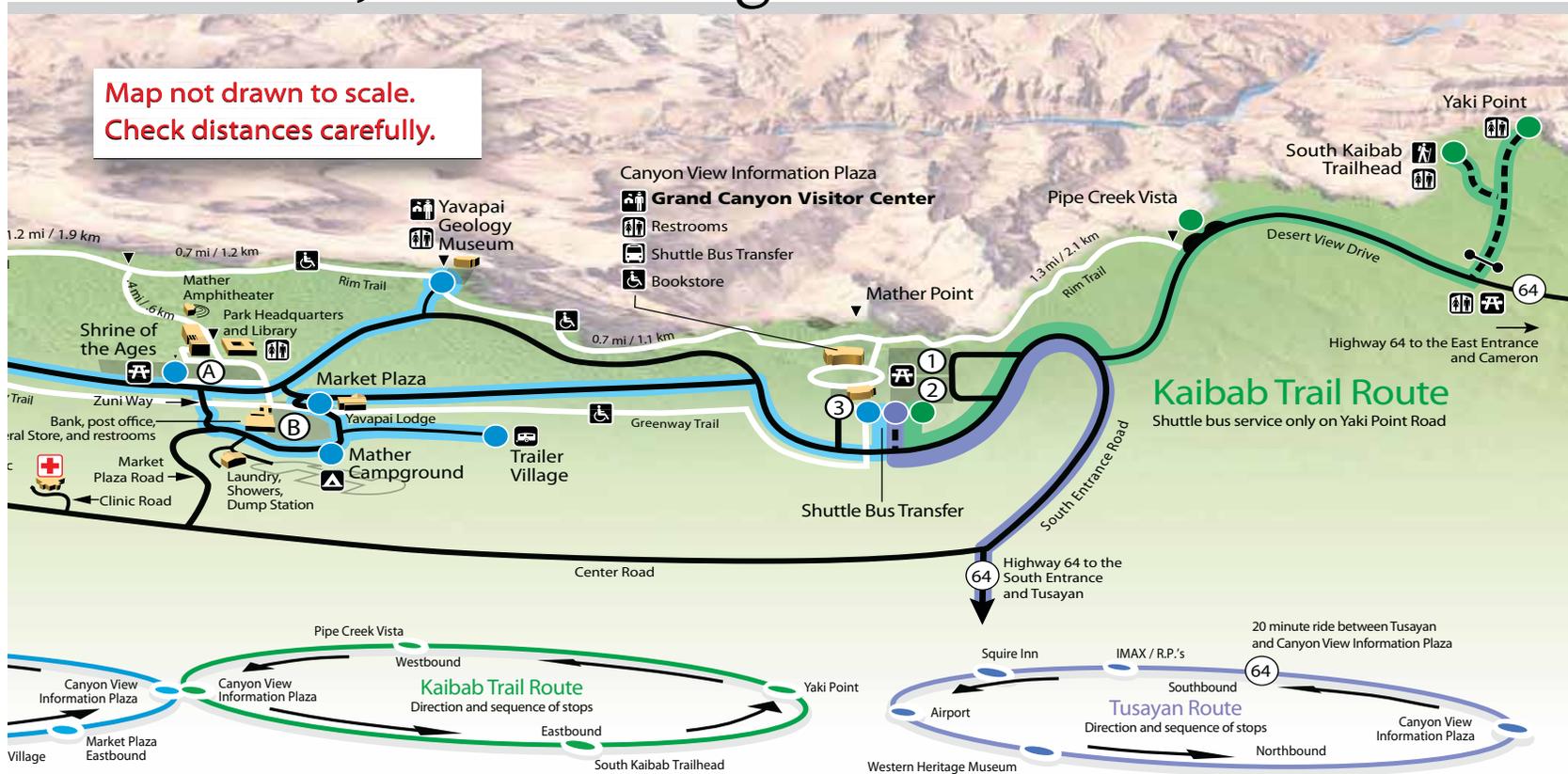
30 minutes 5:15 a.m. to 6:30 a.m.
15 minutes 7:30 a.m. to one hour after sunset



See page 18 for early morning hikers' shuttle to South Kaibab Trailhead.

Sunrise and sunset times are on page 7.

of Interest, and Parking



Tusayan Route
 Buses provide transportation between hotels, restaurants, airport, and other facilities in Tusayan (four stops) and Canyon View Information Plaza. You must have a valid park entrance permit to use this shuttle. Purchase permits at hotels or the National Geographic Visitor Center, if you have not already paid for a permit at the entrance station.
20 minutes each way (without getting off the bus)
Buses run every 15 minutes
 • First bus leaves Tusayan at 8:00 a.m.
 • First bus leaves Canyon View Information Plaza at 8:40 a.m.
 • Last buses leave from both areas at 9:30 p.m.

Rules of the Road
Motorist Warning
 Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks.
Pedestrian Warning
 Avoid walking on narrow park roads. Use trails that parallel most park roads. Always face traffic.
Bicyclist Warning
 Bicycles are permitted on all paved and unpaved park roads and the Greenway Trails. They are prohibited on all other trails, including the Rim Trail. Bicyclists must obey all traffic regulations. Always ride single file with the flow of the traffic. Wear bright colors and a helmet.
 On the narrow Hermit Road bicyclists should pull to the right shoulder of the road and dismount when buses and large vehicles attempt to pass.

Parking
 Location of the lots is indicated on the map above. Avoid parking along the roadside except where signs or lines on the road indicate that it is permissible.
 ① ② ③ Ample lots surround Grand Canyon Visitor Center at Canyon View Information Plaza
 (A) Near Park Headquarters. Large lot that frequently has available spots.
 (B) Near the businesses in Market Plaza. This large lot tends to fill early.
 (C) This small lot near the intersection of Center and Village Loop Roads may have sites when others do not.
 (E) Near the Backcountry Information Center. The southern portion of this lot has large, pull-through spaces for RVs and vehicles with trailers.

Legend

- Shuttle Bus Routes** (Indicated in red, blue, green, or purple)
- Shuttle Bus Stops** (Indicated in red, blue, green, or purple)
- Major Park Roads** (All vehicles)
- Secondary Roads** (All vehicles)
- Shuttle Buses Only**
- Parking**
- Picnic Tables**
- Paved Trails**
- Unpaved Trails**
- Distance between points on trails**

Not to scale. Check distances carefully.

Park Science

California Condors: Soaring to Success



15,000 years ago

A condor sits on a limestone boulder at the edge of the canyon. Her half-outspread wings catch the warming rays of the rising sun. Slowly, a bit awkwardly, she turns so her back can feel the heat. When the sun is higher, creating updrafts, she will soar over the canyon.

Heading downriver, she might notice a cow-sized Shasta ground sloth lumbering uphill away from the river and disappearing into a cave. If

she had ventured upriver, she might have seen a group of Columbian mammoths huddled under a sandstone overhang out of the midday sun.

These and other large mammals—Harrington's mountain goat, shrub ox, camels, horses—grazed on the abundant grasses or under the forests that extended down the sides of the canyon during the cooler, wetter climate of the last Ice Age. Their carcasses provided abundant carrion for the condor and its even larger relative the teratorn.

Today

The climate changed. Now the canyon winds across a high desert. The large mammals are extinct, most by 10,000 years ago. The teratorn, with its 12-foot wingspan, is known from fossils found in the La Brea Tar Pits in California and Grand Canyon caves. Bone, fur, and dung preserved in Rampart Cave in the western Grand Canyon and in Bechan Cave (actually a large overhang) in southern Utah help scientists decipher the world of 15,000 years ago.

But the California condor lives on—barely. When Europeans arrived to North America 500 years ago, the California condor population existed only along the Pacific Coast, perhaps living off the carcasses of large marine mammals washed ashore. Over the centuries human pressures—shooting, egg collecting, electric power lines, spilled antifreeze—further reduced the condor population. By the 1980s only 22 California condors remained.

All were trapped and a captive breeding program begun. The condors cooperated and by the late 1990s captive-reared condors were released back into the wild in California and northern Arizona. Over the years pairs formed and nesting attempted. In 2003 a wild-born condor fledged from a cave in Grand Canyon—the first fledgling in Arizona in more than a century.

The California condor population now stands at around 360 birds, with 180 in the wild. More than 70 condors soar the skies of northern Arizona and southern Utah. Condors started five or six nests in this area this year.

To learn more about California condors and nesting success, attend the condor talk given every afternoon at 3:00 p.m. in front of Lookout Studio. Watch for these magnificent birds soaring over the rim..

Want to know more?

For more information on California condors, attend the *Condor Talk: Wings over the Canyon* ranger program described on page 3 or for recent field reports go to www.peregrinefund.org. Grand Canyon Association bookstores feature several condor titles, including:

- *Condor: To the Brink and Back* John Nielsen
- *California Condors* (children's book) Patricia A. Fink Martin
- *Condor, Spirit of the Canyon* (children's book) Robert Mesta
- *Condors in Canyon Country* Sophie Osborne

Take a Look at Canyon Sketches

Canyon Sketches, an electronic magazine on the park's web site, features short updates about the canyon's natural, cultural, and recreational resources. Articles highlight the projects that Grand Canyon's Science and Resource Management biologists, archeologists, physical scientists, and wilderness planners do to inventory, monitor, mitigate, restore, and rehabilitate park resources.

Recent features include exotic species control, historic fire towers, and transplanting of humpback chub (*right*). Articles include text, photographs, videos, and historic movies to tell the story.

Learn more in *Canyon Sketches* e-magazine at www.nps.gov/grca/naturescience/cynsk.htm.



Mountain Lions and You

Research has documented mountain lions on the South Rim. Although seldom seen, the presence of mountain lions and other wildlife contributes to the richness of the visitor experience. Please respect all inhabitants of this wonderful area, both four-footed and two-footed.

To reduce the chance of mountain lion encounters:

- Do not hike alone. Hike in groups and make noise.
- Supervise your small children. Do not let them run ahead of you out of sight.
- Do not leave food, including pet food, where animals can reach it.

If you should encounter a mountain lion that appears aggressive or does not immediately retreat:

- Do not turn and run, which could provoke a chase response. Back slowly away from the animal while facing it.
- Appear big. Stand tall; hold a jacket open to increase your apparent size.
- Make noise.
- Keep together in a group. There is safety in numbers.
- In the unlikely event of an attack, fight back.

Report all mountain lion sightings to a ranger.

Park Science

For Your Safety and Theirs: Keep Wildlife Wild

To many people, the opportunity to view the wildlife in Grand Canyon National Park is as amazing as the spectacular views. Visitors may commonly see mule deer and elk in Grand Canyon Village, endangered California condors soar majestically above the canyon, and other wildlife including ravens, lizards, and rock squirrels are common along the rim. Visitors may also have the opportunity to glimpse bighorn sheep, coyotes, and ringtails. Mountain lions, bobcats, badgers, and rattlesnakes are less commonly seen, but are present in the park.

Many visitors to Grand Canyon may think that species such as rattlesnakes and mountain lions pose the greatest risks to people. In fact, rock squirrels, deer, or elk inflict more injuries. During the summer, rock squirrels commonly bite visitors who are feeding them, or who are just holding their finger out towards them. Park rangers regularly tell visitors that squirrels are the most dangerous animal in the park because squirrel bites are so frequent.

Federal law protects all wildlife in Grand Canyon National Park. Most people know that hunting and trapping are not allowed in national parks, yet many people may not realize that approaching or feeding animals is also prohibited. Park regulations prohibit these actions because they are harmful to animals and place people in danger. When you approach too closely to wildlife, you may stress



them and interfere with behaviors necessary for their survival.

Animals that are fed by people may lose their natural fear of humans and their ability to forage for natural foods. "A fed animal is a dead animal" embodies considerable truth. In addition to losing their foraging ability, animals that have been fed are less likely to survive other reasons. Visitors feeding animals from vehicles cause them to congregate near roadways, placing them at a high risk of being killed by vehicle collisions.

In recent years the National Park Service has had to euthanize deer, coyotes, rock squirrels, and other animals that had become overly aggressive towards humans or had become completely dependant on food handouts. Park rangers work to preserve and protect park resources, including wildlife. NPS staff find it heartbreaking when they are forced to euthanize animals whose aggressive behaviors were caused by being fed by well-meaning people. Animals foraging for natural foods in an unaltered environment are the healthiest.

Feeding animals puts everyone in potentially hazardous situations. People who feed animals may be bitten or otherwise injured by the animal they are feeding. Other visitors are at risk as they may be harmed by aggressive animals that have previously been fed.

Seemingly tame animals are still wild, and may behave unpredictably. Animals may use their teeth, claws, hooves, antlers, or horns to defend themselves. View wildlife from a safe distance. Provide animals sufficient room to make an escape if they feel threatened. You are too close to an animal if your presence causes them to move.

There are other serious hazards associated with wildlife. Squirrels and other rodents, coyotes, foxes, bats, and mountain lions may carry infectious diseases such as Hantavirus, rabies, or plague. In some situations, animals may transmit these diseases through simple contact, such as touching or feeding wildlife. In recent years, biologists have documented Hantavirus, rabies, and plague in the park's wildlife populations.

Grand Canyon National Park is a sanctuary and home for wildlife. By treating wildlife with respect and not approaching or feeding them, you are aiding their chance for survival. By keeping wildlife wild, you are protecting their safety—and yours.

Preserving Our Cultural Heritage

Many peoples have called Grand Canyon home during the last 12,000 years. During your visit, you may come across remnants of cultures from long ago. You may see evidence left by miners and explorers of the early twentieth century or the remains of prehistoric Native American dwellings, rock art, or artifacts such as pottery.

These ruins and artifacts are a fragile, irreplaceable legacy. The National Park Service preserves these special places and federal law prohibits the excavation, injury, destruction, or removal of any relic, artifact, or archeological site.

When visiting a site:

Do

- Take pictures.
- Imagine what life was like in the past.
- Contact a ranger if you see archeological sites defaced or you witness someone removing artifacts.

Don't

- Walk or lean on walls in sites.
- Touch rock art or granary walls.
- Move artifacts or modify walls.
- Eat or camp within the site.

If you would like to enjoy a cultural site, visit:

- Tusayan Ruin on the South Rim
- Bright Angel Ruin at Phantom Ranch
- Hilltop Ruin, Nankowep granaries, and Unkar Delta along the Colorado River
- Walhalla Glades Ruin, Transept Trail Ruin, and Cliff Springs granary on the North Rim
- Rock art sites along the Bright Angel Trail
- Horseshoe Mesa Historic District on the Grandview Trail



Park News

A Greener, Sustainable Grand Canyon

The National Park Service at Grand Canyon National Park is committed to sustainability through understanding how our day-to-day operations affect the environment.

Management actions address environmental concerns which influence both the natural and cultural resources in the park, as well as the visitor's experience.

Sustainable solutions not only improve the quality of life at Grand Canyon, but also extend beyond the boundary of the park into the lives of all visitors.

Shuttle Buses

The National Park Service has offered free shuttle bus service on the South Rim since 1974. During the last few years, the contractor upgraded to a fleet of accessible shuttle buses which run on compressed natural gas, a clean-burning fuel. The shuttle system has provided millions of rides since inception, helping to reduce greenhouse gas emissions. Last year more than one million people rode the shuttle, eliminating 345,000 vehicles from park roads! The new Tusayan Route (*below*) served 50,000 riders in its inaugural season, which eliminated 17,000 vehicles from the park, resulting in less congestion on roads and parking lots. See pages 12–13 for information on the shuttle bus system.

Bicycle Rentals and Employee Bike Share

A new bicycle rental operation has kicked off this summer at Canyon View Information Plaza (see article on page 9). Bright Angel



Bicycles offers a variety of bicycles for riding on the park's roads and Greenway Trail system around Grand Canyon Village as far west as Hermits Rest.

Sustainability: meeting the needs of the present without compromising the ability of future generations to meet their needs; the potential for long-term maintenance of the wellbeing of the natural world and the responsible use of natural resources

NPS employees will have the option to use bikes rather than vehicles to commute between work areas at the South Rim thanks to a grant for bike purchases for

each division. Watch for smiling, green-clad employees on bikes during your visit (*below*).



Vehicle Efficiency

Every time a vehicle needs replacement, the National Park Service chooses alternative fuel vehicles including flex fuel, biodiesel, and hybrid cars and trucks. The NPS aims to reduce fuel consumption by 30 percent by 2016.

The South Rim Auto Shop, which maintains National Park Service vehicles, has greened its operation by using re-refined oil for maintenance and recycling all used oil, oil filters, tires, batteries, and antifreeze. The Auto Shop has replaced environmentally harmful chemical products with more environmentally friendly products and practices.

Green Purchasing

The park has a green purchasing policy for environmentally-friendly office supplies, janitorial products, and other materials that staff use in their day-to-day operation.

Recycling Program

Grand Canyon hosts a robust recycling program for glass, tin, aluminum, paper,



cardboard, magazines, and all plastics. Recycling bins are located throughout the park. Additionally, the park recycles laser and ink jet cartridges, cell phones, scrap metal, propane canisters, electronics, fluorescent bulbs, batteries, and composts all mule manure.

Renewable Energy

Photovoltaic. At the Grand Canyon Visitor Center in Canyon View Information Plaza, visitors can see the Arizona sunshine in action. Arizona Public Service, the largest utility company in Arizona, worked with the park to install photovoltaic panels at Grand Canyon Visitor Center in May 2009 (*above*). The 18 kilowatt system supplies 30 percent of the power used in the building. The energy saved is more than a normal household would consume and reduces greenhouse gas emissions by at least 20 metric tons a year. A theater is being built onto the Grand Canyon Visitor Center with additional photovoltaic cells included in the design.

Passive Solar. The design of the Grand Canyon Visitor Center incorporates passive solar energy for lighting and heating of the building. Any future buildings will use passive solar techniques.

Hydroelectric. The National Park Service proposes to install hydroelectric generation equipment to provide all power at Phantom Ranch, Cottonwood Campground and Ranger Station, and Roaring Springs Bunkhouse, all in the inner canyon. The projects will eliminate purchased electricity, and save 136 metric tons of carbon dioxide equivalent at Phantom Ranch; enough electricity to power 17.6 houses per year.

Smart Energy Management

Grand Canyon is replacing all incandescent bulbs with highly efficient T-8 fluorescent in park buildings. This year, the Park Headquarters building will be switched to all T-8 lighting systems. Grand Canyon purchases Energy Star® products when replacing expended equipment.

Water Bottle Filling Stations

Grand Canyon is working to encourage the use of reusable water bottles by providing water bottle filling stations in convenient locations throughout the park. Grand Canyon souvenir water bottles are available from gift shops and the General Store. Take part in reducing waste (single use water bottles make up much of the recyclable trash stream), while enjoying fresh Grand Canyon spring water in your reusable bottle.

Reclaimed Water

Grand Canyon began using reclaimed water in the 1920s, not long after becoming a national park. The park uses reclaimed water from treatment operations for landscaping and in toilets in the Facility Operations building and the rest rooms at Canyon View Information Plaza. Concessions operations also use reclaimed water for landscaping near the hotels on the South Rim.

LEED Buildings

The Facility Operations building is Leadership in Energy and Environmental Design (LEED) certified. Reclaimed water, carpet made from recycled materials, insulated cement block construction, motion sensor and fluorescent lighting systems all contribute to its sustainable character.

(Continued on next page)

Park News

Park Sustainability (continued)

All new construction in the park will meet LEED standards. Two planned projects, a Science and Resource Management building and employee apartments are intended to achieve LEED gold certification.

Climate Friendly Parks Program

Grand Canyon is a participant in the NPS-wide Climate Friendly Parks (CFP) program. The program helps parks mitigate climate change impacts, reduce greenhouse gas emissions, and adapt to changing environmental conditions.

As part of the CFP program, the National Park Service developed an action plan to address operational impacts contributing to greenhouse gas emissions. Grand Canyon aims to reduce emissions to 30 percent below 2008 levels by 2020. The emissions reductions will be achieved through a combination of operational changes and behavioral changes on the part of park employees and residents as well as visitors.

Every five years, Grand Canyon will conduct a complete emissions inventory including

park operations, concessions, residents, and visitors. This inventory will be used to guide operating decisions and take actions toward achieving the goals of the Climate Friendly Parks Action Plan.

Concessioner Contributions

Xanterra Parks and Resorts provides the lodging, dining, gift shops, and railroad services on the South Rim. An in-room video for guests discusses environmental programs and informs guests how to participate in reducing impacts through practices ranging from a linen reuse program to an in-room recycling program. Guest room keys and shampoo, conditioner, and lotion amenities bottles are made from a material that is corn-based and biodegradable. All rooms feature low-flow toilets.

Restaurants participate in a sustainable cuisine program with more than fifteen percent of food and beverage items from local, organic, all-natural, or fair-trade sources. Xanterra recycles grease from restaurants into biodiesel fuel that the Grand Canyon Railway uses in the steam engine.

Xanterra staff volunteered 398 hours of personal time to environmental programs in 2009 including litter pick-ups, an Earth Day celebration, and an educational learning series of talks. Read Xanterra's environmental statement on page 21.

Delaware North Parks and Resorts operate two retail stores within the park using an international environmental management system, GreenPath®. The market offers a variety of organic groceries, Earth friendly cleaning supplies, and gifts made of organic material or recycled content. The delicatessen's disposables, including cups, utensils, and to-go containers, are 85 percent compostable.



Forever Resorts, the lodging concessioner on the North Rim, operates a fully-staffed recycling center which has increased their solid waste diversion to 53 percent. More than half of their waste output is recycled instead of ending in a landfill! Forever Resorts uses a food composting machine which digests food waste into a liquid form that goes through the waste water system. In the previous two years, 200,000 pounds (91,00 kg) of food waste was diverted from landfills.

What You Can Do?

While visiting the South Rim, park your vehicle and ride the free shuttle buses to the scenic viewpoints and visitor facilities. Throw any recyclable materials into the numerous recycling bins (*left*). If staying in lodging, follow the recommendations presented in the video. Use a refillable water bottle rather than a single use bottle.

Lead the way toward a sustainable future by pledging to reduce your carbon footprint at www.doyourpartparks.org. You can pick a park, sign up, calculate your carbon footprint, and pledge to do your part.

Your Park Entrance Fees at Work

Mather Point Construction and Other Projects

You have contributed \$25.00 for the privilege of enjoying and preserving a spectacular part of our national heritage. Your entrance fee supports many projects within the park.

Mather Point and Grand Canyon Visitor Center

Much of the new construction centers around this popular area. In the last few years the main entrance road was rerouted away from Mather Point and closer to the visitor center. Additional parking areas provide easy access to both Grand Canyon Visitor Center and Mather Point.

This summer work continues on trails in the Mather Point area. A new wheelchair accessible trail will allow all visitors to enjoy the canyon from the far reaches of Mather Point. Additional surfaced trails, picnic tables, a sculptured amphitheater on the rim, a rest room close to Mather Point and tour bus parking, and a new shuttle bus stop complement work completed in previous years.

A theater addition to the Grand Canyon Visitor Center is one of the projects continuing in the Canyon View Information Plaza area. This will allow the National Park Service to show an orientation film at the visitor center, a visitor service that has been lacking. New outdoor displays, rerouted pathways, a shuttle bus transfer station, and additional parking make Canyon View Information Plaza a busy area.

Please watch your step and obey all construction signs and barriers as you explore this area.

Free shuttle bus

Your entrance fees fund the free shuttle bus system. The shuttles operate from before sunrise to after sunset, stop at most South Rim viewpoints and facilities including the gateway community of Tusayan, come by frequently, and do not require purchase of a pass. Park your vehicle and ride the free shuttles to make your visit to the South Rim more enjoyable.



Trails

Walking along the rim or descending into the canyon forms longest-lasting memories. National Park Service trail crews have started a multi-year project to improve the South Kaibab Trail. The trail remains open for all hikers. Be extra cautious when walking through areas under construction. Mules will not be using the trail during this project.

Trail crews completed a new section of the Greenway Trail system near Hermits Rest. This 1.5 mile (2.4 km) paved trail, suitable for walkers,

bicycles, and wheelchairs, provides quiet views of the canyon away from the road (*above*).

Rest Rooms

The installation of new vault toilets provides improved facilities at a number of picnic areas and viewpoints including Tusayan Museum, Grandview Point, and the South Kaibab Trailhead.

The National Park Service thanks you for your support.

Day Hiking



Before You Go . . .

Plan Ahead

As a day hiker no permits are required. You are entirely on your own. Your descent into the canyon, however brief, marks your entry into a world in which preparation, self-reliance, and common sense are crucial.

Temperatures Soar

Expect a 20–30° F (11–16° C) difference in temperature between the cool, forested rim and the inner canyon. Canyon temperatures can soar to more than 110° F (43° C) in the shade, and you will not be hiking in the shade. Hiking during mid-day (10:00 a.m. – 4:00 p.m.) is not recommended.

Double Your Calories, Double Your Fun

Salty snacks and water or sports drinks should be consumed on any hike lasting longer than 30 minutes. Food is your body's primary source of fuel and salts (electrolytes) while hiking in the canyon.

If you do not balance your food intake with your fluid consumption, you run the risk of becoming dangerously debilitated and severely ill. For every hour hiking in the canyon, you should drink ½ to 1 quart (liter) of water or sports drinks.

Your best defense against illness and exhaustion is to eat a large breakfast, a full lunch, a snack every time you take a drink, and a rewarding full dinner at the end of the day. This is not a time to diet.

Watch Your Time

Plan on taking twice as long to hike up as it took to hike down. Allow 1/3 of your time to descend and 2/3 of your time to ascend.

Mules and Hikers

Encounters between hikers and mules have resulted in injuries to packers and the death of some mules. To ensure safety for yourself, other trail users, and mule riders, when encountering mules on the trails:

- Step off the trail on the uphill side away from the edge.
- Follow the directions of the wrangler. Remain quiet and stand perfectly still.
- Do not return to the trail until the last mule is 50 feet (15 m) past your position.

Hiking Tips

- 1. Be Prepared:** Know your route. Know the weather forecast. Expect thunderstorm activity. Carry a map, flashlight, and extra clothing including wind and rain protection.
- 2. Stay Cool:** Hike during the cooler early morning and late afternoon hours. If you hike in the sun, keep your shirt and hat wet to stay cool.
- 3. Go Slowly:** If you can carry on a conversation, you are hiking at the right pace. If you find yourself out of breath, your legs and digestive system are not getting enough oxygen. Lack of oxygen can cause fatigue, heavy legs, and exhaustion.
- 4. Rest Often:** Sit down, prop your legs up, and take a 10-minute break at least once every hour.
- 5. Eat and Drink Frequently:** Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. Eat a salty snack every time you drink.

Hiking Chart for some popular day hike destinations

Warning! National Park Service rangers recommend that you do not attempt to hike from the rim to the river and back in one day, because of the distance, high canyon temperatures, low humidity, and the steepness of the trails. Few trails form loops; you will be hiking on the same trail in both directions.

You are responsible for the safety of yourself and those in your party!

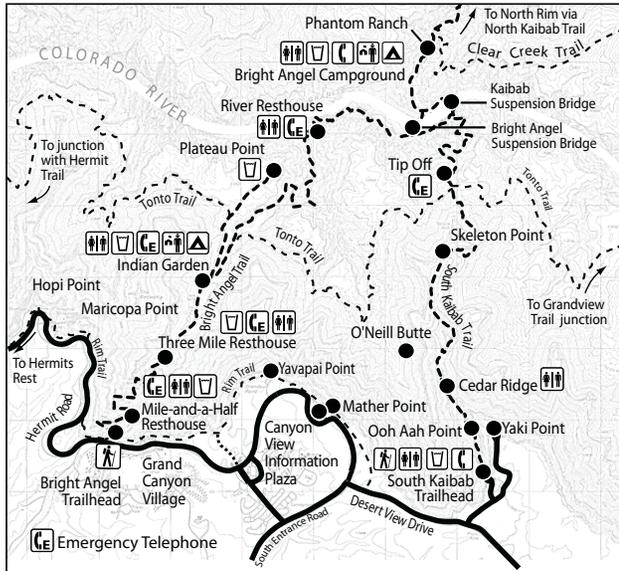
Trails	Destination	Round trip distance	Approximate time round trip	Elevation change	Notes
Rim Trail (mostly flat, many sections suitable for wheelchairs)					
The Rim Trail offers easy walking and quiet views as it winds along the rim from Hermits Rest west to Pipe Creek Vista. Begin from any viewpoint and use the free shuttle buses to return.	Follows the rim for 12 miles (20 km)	Your choice	15 minutes to half-a-day	200 feet 60 m	Mostly paved except dirt from Monument Creek Vista east to Maricopa Point
Bright Angel Trail (steep, but popular)					
The most popular trail into the canyon begins west of Bright Angel Lodge. Some shade and seasonal water (subject to line breaks). Check at visitor centers or the Backcountry Information Center for trail condition. Hiking to the river and back in one day is not recommended.	1 ½-Mile Resthouse	3 miles 4.8 km	2–4 hours	1,131 ft. 345 m	Rest room Water May – September
	3-Mile Resthouse	6 miles 9.6 km	4–6 hours	2,112 ft. 644 m	Rest room Water May – September
	Indian Garden	9.2 miles 14.8 km	6–9 hours	3,060 ft. 933 m	Rest room Water year round
South Kaibab Trail (steep with expansive views)					
Trail begins south of Yaki Point; you must ride the free shuttle bus to the trailhead. Best views for a relatively short hike, but no afternoon shade. Water at the trailhead, but not along the trail. Hiking to the river and back in one day is not recommended	Ooh Aah Point	1.8 miles 2.9 km	1–2 hours	600 ft. 180 m	No water First view east
	Cedar Ridge	3 miles 4.8 km	2–4 hours	1,140 ft. 347 m	Rest room No water
Hermit Trail (steep and rocky)					
This rough, unmaintained trail starts 500 feet (150 m) west of Hermits Rest. Recommended for experienced desert hikers, this trail has little afternoon shade. Hiking boots recommended. Water from springs must be treated.	Waldron Basin	3 miles 4.8 km	2–4 hours	1,240 ft. 380 m	No water, little shade
	Santa Maria Spring	5 miles 8 km	4–6 hours	1,760 ft. 540 m	Treat water
	Dripping Springs	7 miles 11 km	5–7 hours	1,400 ft. 430 m	Treat water Narrow trail



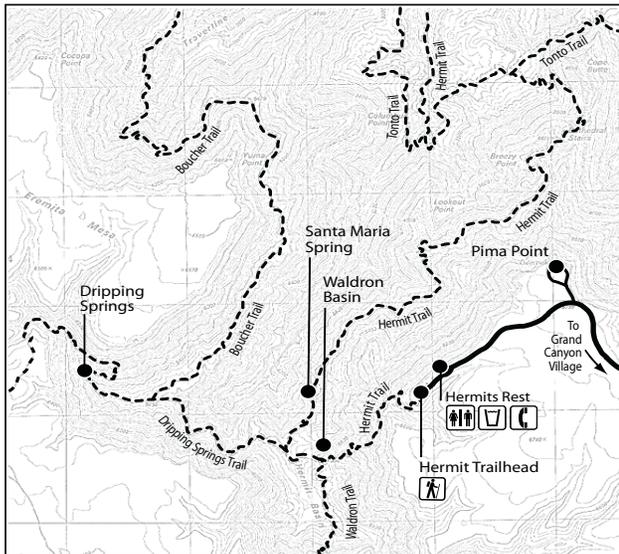
The *Hikers' Express* runs from the Bright Angel Lodge shuttle bus stop and the Backcountry Information Center to the South Kaibab Trailhead, with a stop at the Grand Canyon Visitor Center, at:
May and September 5:00 a.m., 6:00 a.m., and 7:00 a.m.
June, July, and August 4:00 a.m., 5:00 a.m., and 6:00 a.m.

Hiking and Camping below the Rim

Corridor Trails: Bright Angel and South Kaibab



Hermit Trail



Backpacking Permits

Overnight backpacking in Grand Canyon provides a degree of solitude, wildness, and silence that is increasingly difficult to find. A backcountry permit is required for all overnight backpacking, except for guests of Phantom Ranch. Permits can be reserved up to four months in advance. A fee of \$10.00 per permit plus \$5.00 per person per night is collected. The permit program helps to limit impacts to the natural resource while providing a greater degree of solitude for hikers.

Individuals arriving without a permit may be able to obtain one through a daily waiting list. Inquire early in the morning at the Backcountry Information Center, open daily 8:00 a.m. to noon and 1:00 p.m. to 5:00 p.m. For more information, pick up a *Trip Planner* at the Backcountry Information Office or any NPS visitor center.

Backcountry Information Center

P.O. Box 129
Grand Canyon, AZ 86023
Tel: (928) 638-7875 (1:00 p.m. to 5:00 p.m.
Monday–Friday)
www.nps.gov/grca

Leave No Trace

Leave No Trace is a nonprofit organization dedicated to promoting responsible outdoor recreation through education, research and partnerships. While enjoying your visit, please consider the following principles to minimize your impact and help protect Grand Canyon for future generations.



1. Plan ahead and prepare
2. Travel and camp on durable surfaces
3. Dispose of waste properly
4. Leave what you find
5. Minimize campfire impacts
No campfires in Grand Canyon National Park backcountry.
6. Respect wildlife
7. Be considerate of other visitors

For more information: www.LNT.org

Health Hazards

Moderation is the key to having an enjoyable hike. Hike within your ability, maintain proper body temperature, balance your food and water intake, and rest often. Emergency situations include:

Heat exhaustion

Heat exhaustion is the result of dehydration due to intense sweating. Hikers can lose one to two quarts (liters) of water per hour. Rangers treat as many as twenty cases of heat exhaustion a day in summer.

Symptoms: pale face, nausea, cool and moist skin, headache, and cramps

Treatment: drink water, eat high-energy foods, rest in the shade, cool the patient

Heat stroke

Heat stroke is a life-threatening emergency where the body's heat-regulating mechanisms become overwhelmed by a combination of internal heat production and environmental demands.

Symptoms: flushed face, dry skin, weak and rapid pulse, high body temperature, poor judgment or inability to cope, unconsciousness. Victim is in danger!

Treatment: find shade, cool victim with water, send for help!

Hyponatremia

Hyponatremia is an illness that mimics the early symptoms of heat exhaustion. It is the result of low sodium in the blood caused by drinking too much water, not eating enough salty foods, and losing salt through sweating.

Symptoms: nausea, vomiting, altered mental states, and frequent urination

Treatment: have the victim rest and eat salty foods. If mental alertness decreases, seek immediate help!

Hypothermia

Hypothermia is a life-threatening emergency where the body cannot keep warm due to exhaustion and exposure to cold, wet, windy weather.

Symptoms: uncontrolled shivering, poor muscle control, and a careless attitude

Treatment: put on dry clothing, drink warm liquids, and protect from wind, rain, and cold

Want to know more?

Grand Canyon Association bookstores offer many books and maps on hiking. Bookstore hours and locations are listed on page 5. A few items to consider include:

- *Official Guide to Hiking Grand Canyon*, Scott Thybony
- *The Grand Canyon Trail Guides* series: Bright Angel, Grandview, Havasu, Hermit, North Kaibab, South and North Bass
- *Grand Canyon National Park Trails* topographic map

Enjoying Grand Canyon

Exploring the South Rim Now that I am here, what do I do?

Your first visit to the South Rim can be perplexing. Roads wind seemingly at random. You want to see the canyon, but can not find an overlook. Parking areas are elusive. Where is a ranger when you want to talk with one? Use these suggestions to adventure throughout the South Rim without descending into the canyon.

Ride the free shuttle buses

Use the map in the center of this publication to find a parking area and learn details of the free shuttle bus system. The Grand Canyon Visitor Center has the most parking. Grab your camera, water, and family and walk to the nearest shuttle bus stop. Hop on the next shuttle that will come by shortly. No tickets to buy; no tokens to drop in a slot. Get on and off at any stop from before sunrise to after sunset. An article on page 7 provides more details.

Shuttle buses “kneel,” lower to nearly ground level, and have extendable ramps to accommodate most wheelchairs, smaller motorized chairs, and those with mobility concerns. If you have mobility difficulties that prevent you from using the shuttle buses, stop by any visitor center to obtain an Accessibility Pass. The pass allows private vehicles on Hermit Road and Yaki Point Road that are closed to other vehicles.

Shuttle buses have racks to handle up to three bicycles. Pedal a while and return on the shuttle.

The Rim Trail—The Connecting Thread

The Rim Trail follows the edge of the canyon for more than 12 miles (20 km) from Hermits Rest on the west to Pipe Creek Vista on Desert View Drive on the east. Beautiful canyon views unfold around each twist and turn. Much of the trail is paved, nearly level, and suitable for casual walkers, families with strollers, and visitors in wheelchairs. Shuttle bus stops on or near the Rim Trail provide

Sunrise and Sunset

“Where is the best place to watch the sunset?” is a commonly asked question. Any viewpoint will do, as there is no bad spot to watch the play of light and shadow within the canyon. The most important recommendation is to arrive early, an hour or more before sunset, or stay after the sunrise.

many options for combining a walk on a portion of the trail with a free shuttle bus ride.

Hermits Rest and the Hermit Road

Enjoy a less hectic pace. Because the seven mile (11 km) Hermit Road is closed to most vehicles for much of the year, you must ride the Hermit Rest Route (red route) shuttle buses from the transfer at the west edge of Grand Canyon Village. The shuttle makes eight stops at overlooks while heading to Hermit Rest at the end of the road, but only three stops on its way back to the village. Get off the bus at one stop and walk along the rim to the next. Rest rooms are found at Hopi Point and Hermits Rest.

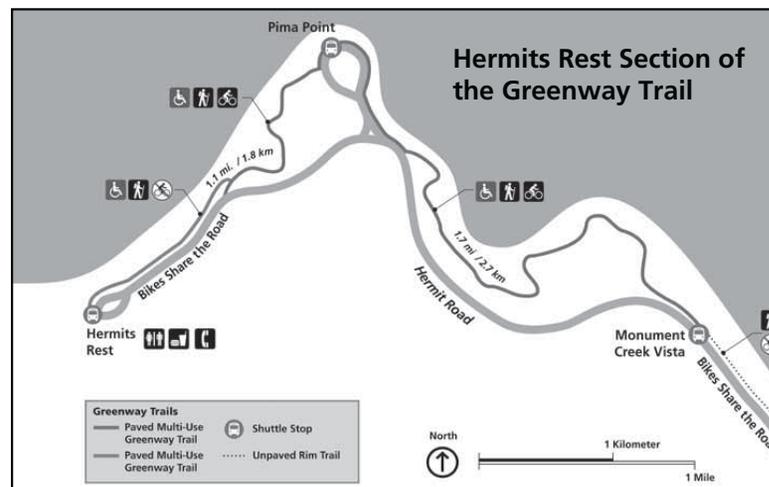
Hermits Rest, a Mary Colter-designed building a short walk from the end of the road, hosts a gift shop and snack bar. Take time to step inside and marvel at the fireplace. How did Colter hide such a large room in the hillside?

The first 1.5 miles (2.4 km) of the Rim Trail from Hermits Rest to Monument Creek Vista is the newest component of the Greenway Trail system (see adjacent map). Greenway Trails are wide, paved, and nearly level to accommodate hikers, wheelchairs, and bicycles. This is the only section of the Rim Trail that permits bicycles.

The nearly four miles (6 km) of Rim Trail between Monument Creek Vista and Maricopa Point is unpaved. A walk along this level section offers families a taste of the trails that descend into the canyon. A National Park Service trail crew recently improved the trail in this section. Watch for the detailed rock work constructed by these talented people.

From Maricopa Point the trail becomes paved again and heads downhill to Grand Canyon Village. Just before the shuttle transfer the trail crosses the Bright Angel Fault, a weakness in the Earth’s crust. This inclined segment is not suitable for wheelchairs.

With much less traffic than other park roads, the newly repaved Hermit Road provides an excellent route for riding bicycles. Do not let the first steep hill discourage you. The road soon becomes more level. Or ride the shuttle bus to the Trailview Overlook stop at the top of the hill. Bright Angel Bicycles in Canyon View Information Plaza offers tours of Hermit Road.



What is Grand Canyon Village?

Grand Canyon Village is the historic heart of development on the South Rim. Here you will find many, but not all, of the lodges, restaurants, gift shops, bookstores, and the Verkamp’s Visitor Center. Several of the buildings date from the early 1900s, including Mary Colter’s Lookout Studio and Hopi House. Enjoy the free art exhibits at Kolb Studio (see page 5). Trains arrive at the Grand Canyon Depot at least once a day. Stop in Verkamp’s Visitor Center to learn more of the history of this community.

Across the street from the depot, above the Xanterra South Rim General Offices begins another segment of the Greenway Trail. This segment, away from the rim, takes walkers and bicyclists from Grand Canyon Village to Market Plaza. For bicyclists the Greenway provides a much safer route than the busy narrow roads.

At Market Plaza a general store offers groceries and souvenirs. Some unexpected services are the post office and bank. The Greenway continues on to Canyon View Information Plaza. The Rim Trail follows the rim from Grand Canyon Village past Yavapai Point and on to Mather Point and Canyon View Information Plaza.

Interested in the geology of Grand Canyon—how the rock layers formed and the canyon carved? Stop at Yavapai Geology Museum. Displays inside explain the processes. A panoramic window looks out over the canyon; especially welcome if the weather is bad.

Canyon View Information Plaza and Grand Canyon Visitor Center

For many visitors this complex of buildings is the first stop after entering the park. Rangers at the visitor center can help plan your visit. The Books and More Store offers the largest selection of Grand Canyon literature. The rest rooms are always welcome. The transit pavilion serves three loops of the free shuttle bus system—the Village Route (blue) heads west to the lodges, restaurants, campgrounds, and gift shops; the Kaibab Trail Route (green) goes east to Yaki Point and the South Kaibab Trailhead; and the Tusayan Route (purple) serves the gateway community of Tusayan. Construction at nearby Mather Point this summer may make it difficult to walk to this overlook.

Desert View

If you have time, driving to Desert View near the East Entrance of the park is rewarding. The many viewpoints along the route are less crowded. At Lipan Point the canyon opens wide so several miles of the Colorado River are visible. Stop along the way at the Tusayan Museum to learn about the Native Americans who have cultural connections with Grand Canyon. Climb the stairs of the Watchtower to look up the canyon as it curves northward.

Shuttle buses and bicycling. Trails and roads. Viewpoints and visitor centers. Take advantage of all the South Rim has to offer without venturing below the rim.

Park Partners

The National Park Service thanks these park partners for support with this and other publications.

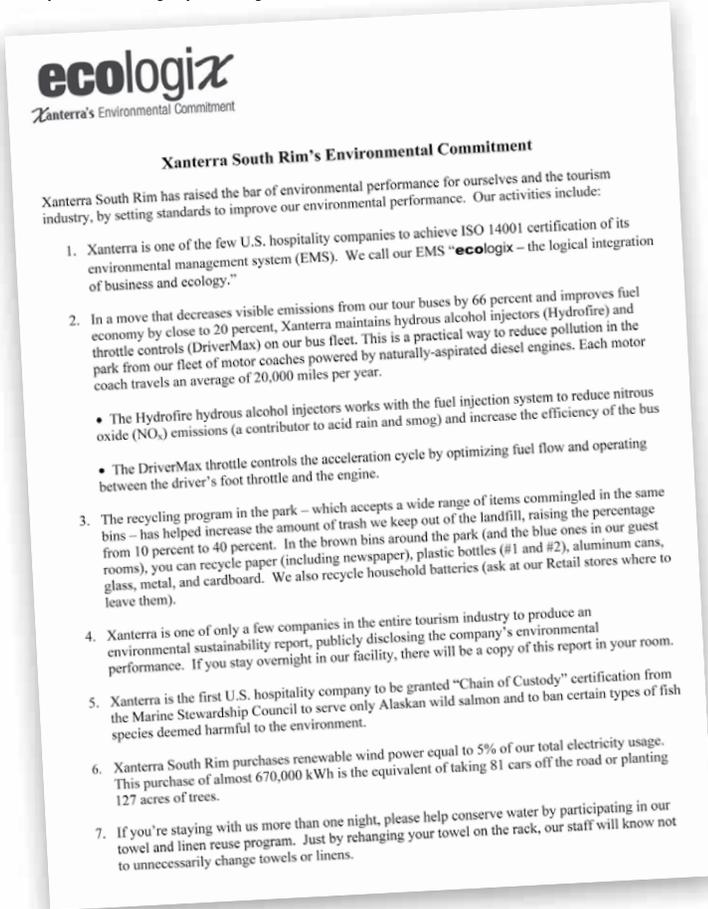
Xanterra South Rim

Xanterra South Rim is the primary concessioner and the sole provider of in-park lodging at the South Rim. Owned and operated by Xanterra Parks & Resorts, we have been providing quality guest service since El Tovar Hotel opened in 1905 by the Fred Harvey Company. Today park visitors have a choice of accommodations in seven distinctly different lodging properties. Additional services include gift stores, restaurants, and in-park tours.

As the nation's largest national and state park management company, we know that we play an integral part in the tourism industry and how it impacts the natural environment. This is why we are a company based upon



values that reflect an environmental ethic and social conscience for the long term. We have implemented comprehensive environmental initiatives throughout our operations. Please join us in these efforts to reduce, reuse, and recycle during your visit to this special place. For more information call (928) 638-2631 or visit www.grandcanyonlodges.com.



Forever Resorts

Forever Resorts operates the Grand Canyon Lodge, restaurants, retail, gift and convenience stores, service station, and Grand Canyon Cookout Experience on the North Rim. Forever Resorts trains and encourages employees to foster a sense of awareness and stewardship in park visitors through an appreciation of park resources. For information on Grand Canyon North Rim Lodge, visit online at www.grandcanyonforever.com.



DNC Parks & Resorts

DNC Parks & Resorts at Grand Canyon (DNC) operates the general stores in the park at Desert View and Grand Canyon Village. DNC encourages its associates to develop a strong relationship with the park during their tenure and to be good stewards of its special places in which we operate. For more information please contact us at (928) 638-2262. www.delawarenorth.com



WiFi and GPS

A WiFi connection is available in the patio of Park Headquarters near parking lot A. Park Headquarters is open 8:00 a.m. to 5:00 p.m. daily. WiFi may be available in the lobbies of lodging facilities.

Computers are available in the park's Research Library, also located in the Park Headquarters building. The library is open 8:00 a.m. to 4:30 p.m. Monday through Friday. The Community Library, south of

the Xanterra South Rim General Office, also offers computers. Library hours vary.

GPS

You may find that the map orienting unit in your vehicle is not working correctly for Grand Canyon National Park. Many companies have not accurately mapped the South Rim area. Please use the maps in this publication or the park brochure to find your way around the area.

Interagency Annual Pass

If you are a frequent visitor to National Park Service or other federal agency sites that charge entrance fees, you may be interested in the *America the Beautiful - National Parks and Federal Recreation Lands Pass*. Five agencies—National Park Service, Bureau of Land Management, Bureau of Reclamation, U.S. Fish and Wildlife Service, and U.S. Forest Service—participate. The \$80.00 pass is valid for one year from the time of first use. The program also offers a lifetime senior pass (\$10.00) for U.S. citizens 62 or over and a free access pass for those with permanent disabilities.

The *America the Beautiful* pass may be purchased at entrance stations, Grand Canyon Association bookstores, or online at www.recreation.gov. The senior and access passes are available only at entrance stations. If you have already paid a park entry fee, the cost of the permit can be credited towards the purchase of an *America the Beautiful* pass.



Lodging and Services

Lodging

In the Park—South Rim

For same-day reservations, call (928) 638-2631. For advance reservations, call (888) 297-2757 or write:

Xanterra Parks & Resorts
6312 South Fiddlers Green Circle, Suite 600N
Greenwood Village, CO 80111
www.grandcanyonlodges.com.

All prices are subject to change.

Bright Angel Lodge

On the rim. \$69–174

El Tovar Hotel

On the rim. \$174–426

Kachina Lodge

On the rim. \$170–180

Thunderbird Lodge

On the rim. \$170–180

Maswik Lodge

West end of village. \$90–170

Yavapai Lodge

Market Plaza. \$107–153

Phantom Ranch

Located at the bottom of the canyon. Overnight dormitory and cabin space. Advance reservations are required.

Call for prices (see above) or inquire at the Transportation Desks in Bright Angel, Maswik, or Yavapai Lodges.

North Rim—Grand Canyon Lodge

Make reservations by calling (877) 386-4383 or www.foreverresorts.com

Outside the Park—Tusayan, AZ

Best Western Grand Canyon Squire Inn

(800) 937-8376 or (928) 638-2681

Canyon Plaza Resort

(800) 995-2521 or (928) 638-2673

Grand Hotel

(888) 634-7263 or (928) 638-3333

Holiday Inn Express

(888) 473-2269 or (928) 638-3000

Red Feather Lodge

(866) 561-2425 or (928) 638-2414

Camping

In the Park—South Rim

Camping is permitted only in designated campsites in Grand Canyon National Park.

Mather Campground

Operated by the National Park Service. No hook-ups are available, but there is a dump station. Maximum vehicle length: 30 feet. Campsites are \$18 per night. Some sites may be available on a first-come, first-served basis. Check at the campground entrance. For advance reservations contact (877) 444-6777 or visit www.recreation.gov.

Trailer Village

Pull-through sites with hookups are located next to Mather Campground. \$34.00 per site per night for two people; \$3.00 for each additional person over age 16. Campers may register at the entrance to Trailer Village. Reservations through Xanterra Parks & Resorts. For same-day reservations, call (928) 638-2631. See advance reservation contact information in adjacent column.

Desert View Campground

Located near the East Entrance, 25 miles (40 km) east of Grand Canyon Village. Self-registration is on a first-come, first-served basis. \$12 per site per night.

Outside the Park

Camper Village

Commercial campground located one mile (1.6 km) south of park entrance in the town of Tusayan. Hookups, coin-operated showers, laundry, propane, dumpstation, and store are available year round. Call (928) 638-2887 or (888) 638-2887.

www.grandcanyoncampervillage.com

Ten-X Campground

Operated by Kaibab National Forest. Located two miles (3.2 km) south of Tusayan. \$10.00 per site per night. No hookups or showers. Group sites available by reservation. Information: (928) 638-2443.

Dining

Listed west to east along the rim.

Hermits Rest Snack Bar

Open daily 9:00 a.m. – 5:00 p.m.

Maswik Cafeteria

In Maswik Lodge at the west end of the village. Open daily 6:00 a.m. – 10:00 p.m.
Maswik Pizza Pub Noon – 11:00 p.m.

Bright Angel Restaurant

In Bright Angel Lodge. Open daily.
Breakfast: 6:00 a.m. – 10:45 a.m.
Lunch: 11:15 a.m. – 4:00 p.m.
Dinner: 4:30 – 10:00 p.m.
Lounge: 11:00 a.m. – 11:00 p.m.

Bright Angel Coffee House

Located in the Bright Angel Lodge. Open daily 5:30 a.m. – 10:00 a.m.

Bright Angel Fountain

Daily 10:00 a.m. – 8:00 p.m.

The Arizona Room

On the rim in Bright Angel Lodge. Open daily. Reservations are not accepted.
Lunch: 11:30 a.m. – 3:00 p.m.
Dinner: 4:30 p.m. – 10:00 p.m.

El Tovar Dining Room

Located on the rim in El Tovar Hotel. Open daily.
Breakfast: 6:30 a.m. – 10:45 a.m.
Lunch: 11:15 a.m. – 2:00 p.m.
Dinner: 4:30 p.m. – 10:00 p.m.
Dinner reservations are required:
(928) 638-2631 ext. 6432.
Lounge: 11:00 a.m. – 11:00 p.m.

Delicatessen in General Store

Located in the General Store. Open daily: 7:00 a.m. – 8:00 p.m.

Yavapai Cafeteria

Located at Market Plaza. Open daily: 6:00 a.m. – 9:00 p.m.

Desert View Trading Post Snackbar

Open daily: 9:00 a.m. – 5:00 p.m.

Groceries

Canyon Village General Store

The General Store is located in Market Plaza. 7:00 a.m. – 9:00 p.m.

Desert View General Store

May: 9:00 a.m. – 6:00 p.m.
June, July, and August: 8:00 a.m. – 6:00 p.m.

Books and Gifts

Listed west to east along the rim.

Hermits Rest 8:00 a.m. – sunset

Maswik 7:00 a.m. – 10:00 p.m.

Lookout Studio 8:00 a.m. – sunset

Bright Angel 7:00 a.m. – 10:00 p.m.

El Tovar 7:00 a.m. – 10:00 p.m.

Hopi House 8:00 a.m. – 8:00 p.m.

Yavapai Curio 7:00 a.m. – 10:00 p.m.

Desert View Trading Post
8:00 a.m. – sunset

Desert View Watchtower
8:00 a.m. – sunset
Watchtower stairs close 30 minutes before sunset

Grand Canyon Association Stores

Kolb Studio 8:00 a.m. – 8:00 p.m.

Verkamp's Visitor Center
8:00 a.m. – 8:00 p.m.

Yavapai Observation Station
8:00 a.m. – 8:00 p.m.

Books & More at Canyon View Information Plaza .. 8:00 a.m. – 8:00 p.m.

Tusayan Museum 9:00 a.m. – 5:00 p.m.

Desert View Visitor Center
9:00 a.m. – 5:00 p.m.

Services

Medical

24-Hour emergency care dial 911
From hotel rooms dial **9-911**

North Country Grand Canyon Clinic
Daily: 8:00 a.m. – 6:00 p.m.
(928) 638-2551

Services In the Park–South Rim

Laundry and Showers
Located near Mather Campground.
6:00 a.m. – 11:00 p.m.
Last laundry load: 9:45 p.m.

Chase Bank and ATM
At Market Plaza. 24-hour ATM.
Monday – Thursday: 9:00 a.m. – 5:00 p.m.
Friday: 9:00 a.m. – 6:00 p.m.
Accepts travelers checks and major credit cards.
(928) 638-2437.
ATM also available in Maswik Lodge lobby.

Post Office
At Market Plaza. (928) 638-2512
Monday – Friday: 9:00 a.m. – 4:30 p.m.
Saturday: 11:00 a.m. – 1:00 p.m.

Kennels
Open daily: 7:30 a.m. – 5:00 p.m.
(928) 638-0534.
For retrieval after 5:00 p.m., contact Fire and Safety: (928) 638-2631.

Lost and Found
For items lost or found in hotels or restaurants, call: (928) 638-2631. For all other lost items call: (928) 638-7798. Take found items to the Grand Canyon Visitor Center at Canyon View Information Plaza or Verkamp's Visitor Center.

Garage Services
Located east of Grand Canyon National Park Lodges general offices. Open daily 8:00 a.m. – noon and 1:00 p.m. – 5:00 p.m. Provides emergency repairs such as tires, belts, batteries, fuses, hoses, etc. Tow service provided to Williams or Flagstaff for more advanced repairs. After hours emergency service available. (928) 638-2631

Tours & River Trips

Air Tours
Fixed-wing and helicopter tours originate daily from Grand Canyon Airport. A list of air tour operators is available upon request at NPS visitor centers or consult the local telephone directory.

Bus Tours
Tours within the park to Desert View and Hermits Rest, as well as sunrise and sunset tours, are available daily. Contact any Transportation Desk or call (928) 638-2631.

Mule Trips
Two-day trips into the canyon depart each morning and may be available on a waiting-list basis. A three-hour ride to The Abyss overlook departs twice daily. Call (928) 638-2631 or contact the Bright Angel Lodge Transportation Desk for information. www.grandcanyonlodges.com

Horse Rides
Trail rides and twilight wagon rides are available from Apache Stables at the north end of Tusayan. Rides are offered as weather permits. For information and reservations call (928) 638-2891.

Smooth-Water Raft Trips
Half-day trips on the Colorado River from Glen Canyon Dam to Lees Ferry are provided by **Colorado River Discovery**. (888) 522-6644 or www.raftthecanyon.com.

Hiking and Backpacking
Grand Canyon Field Institute (GCFI) offers a wide variety of educational programs throughout the park. Expert instructors who share the wonder of Grand Canyon with participants of all ages and backgrounds lead these single- and multi-day classes. For more information call (866) 471-4435 or visit www.grandcanyon.org/fieldinstitute. GCFI is a program of the nonprofit Grand Canyon Association.

Transportation

Transportation Desks
Information about Phantom Ranch facilities, mule trips, horseback riding, air tours, one-day float trips, and motorcoach tours (including wheelchair-accessible tours) is available in the following lodge lobbies. Call (928) 638-2631, ext. 6015.

Maswik Lodge
5:00 a.m. – 7:00 p.m.

Bright Angel
5:00 a.m. – 8:00 p.m.

Yavapai Lodge
8:00 a.m. – 6:00 p.m.

Railroad
Grand Canyon Railway offers service between Williams, Arizona, and Grand Canyon. Call (800) THE-TRAIN for information and reservations. www.thetrain.com

Taxi Service
Service is available to the Grand Canyon Airport, trailheads, and other destinations. Daily 24-hour service. (928) 638-2631, ext. 6563.

Rim to Rim Shuttle
Daily round-trip transportation between the North Rim and South Rim is provided by **Transcanyon Shuttle**. One trip each way daily. Reservations required: (928) 638-2820.

Shuttle Service
Arizona Shuttle provides shuttle service between Flagstaff and Grand Canyon twice daily, also serving Phoenix and Tucson and other locations in northern Arizona. (877) 226-8060 or (928) 226-8060 www.arizonashuttle.com

Bicycle Rentals
Bright Angel Bicycles, located in Canyon View Information Plaza, offers a variety of bicycles for hourly rentals. Shuttle to Hermit Road is available. 8:00 a.m. – 6:00 p.m. daily. See article on page 9.

Arizona Highway Information
511 or (888) 411-ROAD
www.az511.gov



Religious Services

Religious services are offered in the park and the surrounding community. Current schedules are posted at Mather Campground (near the check-in station), Shrine of the Ages, the information kiosk near the post office, the Visitor Center at Canyon View Information Plaza, and Verkamp's Visitor Center.

Church of Jesus Christ of Latter-Day Saints
Gary Bishop, Branch President. (928) 638-3227

El Cristo Rey Roman Catholic
Father Eugene Cagoco, D.S. (928) 638-2390

Grand Canyon Assembly of God
Debbie & Brian Fulthorp, Pastors. (928) 707-2904

Grand Canyon Baptist Church
Rick Wiles, Pastor. (928) 638-0757

Grand Canyon Community Church
(Christian Ministry in the National Parks - multi-denominational)
Jared Long, Pastor. (928) 638-2340

Jehovah's Witnesses (Tusayan)
Borden Miller, (928) 635-4166

Jewish Services and Programs
Rabbi Nina Perlmutter, (928) 777-8172

Available in Tusayan

IMAX Theater
8:30 a.m. – 8:30 p.m. Movie shown every hour on the half hour. (928) 638-2206

Kaibab National Forest
Tusayan Ranger District (928) 638-2443

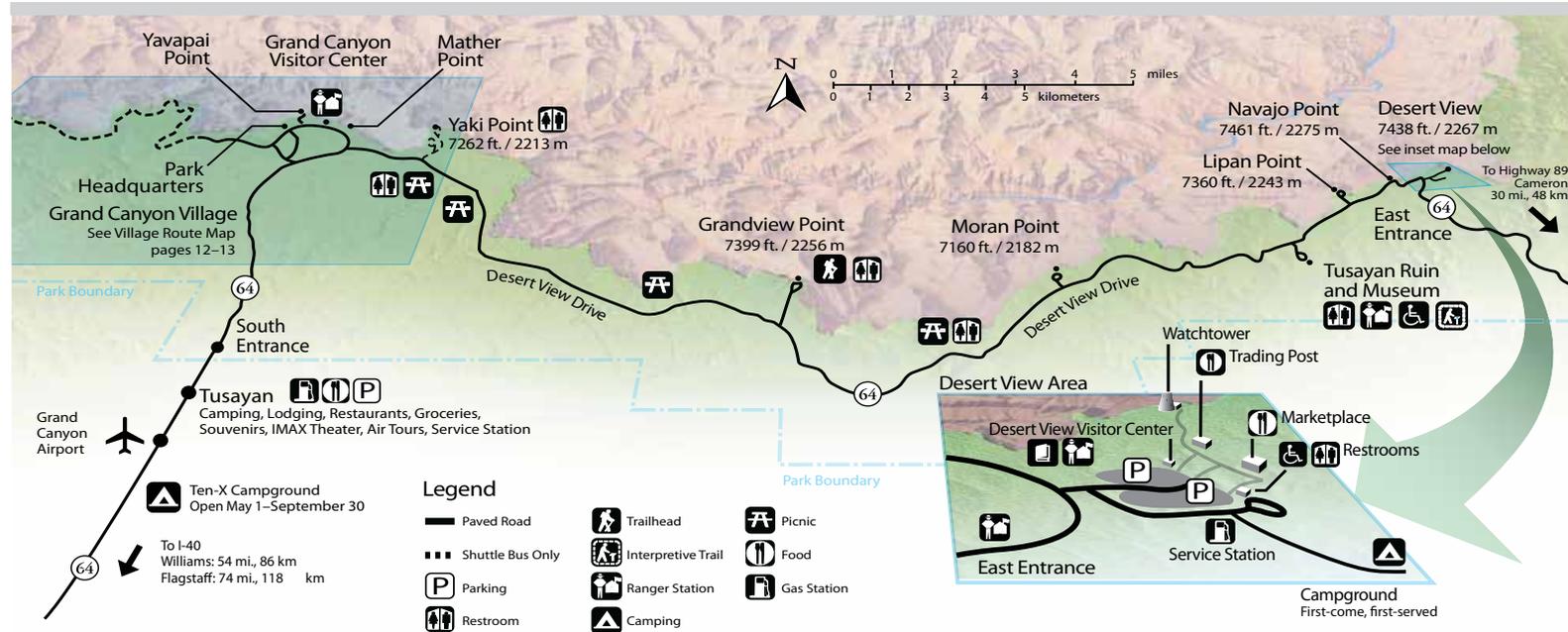
News and Weather
KNAU Radio FM 90.3

Hualapai Skywalk

The Hualapai Skywalk is on the Hualapai Indian Reservation, not in Grand Canyon National Park. The Skywalk is at the west end of Grand Canyon approximately 250 miles from the South Rim. Stop by any NPS visitor center for a brochure with a map.

The Skywalk is a Hualapai Tribal business. For information or to make reservations: (877) 716-9378 or (702) 878-9378 or www.destinationgrandcanyon.com.

South Rim



North Rim



The average distance across Grand Canyon “as the raven flies” is 10 miles; however, traveling from the South Rim to the North Rim by automobile requires a five-hour drive of 215 miles.

Lodging and camping are available at the canyon’s North Rim from May 15 through mid-October. Reservations are strongly recommended. Lodging reservation information is on page 22.

Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake.

A separate issue of *The Guide* is published for the North Rim and includes details about facilities and services, as well as program and hiking information. Stop by any NPS visitor center to obtain a copy.

Bookstores



GRAND CANYON ASSOCIATION
Supporting the Park since 1932

When you shop at Grand Canyon Association (GCA) bookstores, your purchase supports Grand Canyon National Park. GCA is a nonprofit organization created in 1932 to cultivate knowledge, discovery, and stewardship for the benefit of Grand Canyon National Park and its visitors. Since then, GCA has provided in excess of \$33.5 million in financial support.

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Member discounts are also available for most classes offered by the Grand Canyon Field Institute, GCA’s outdoor education program. For more information about GCFI, visit www.grandcanyon.org/fieldinstitute.

Teachers can take advantage of GCA’s *Travelin’ Trunk* program, which brings the Grand Canyon to your classroom. For more information contact (800) 858-2808, ext. 7142 or www.grandcanyon.org/fieldinstitute/educators_trunk.asp.

Shop online: www.grandcanyon.org or call toll free (800) 858-2808, ext 7030.

Desert View Services

Chevron Service Station	9:00 a.m. – 5:00 p.m.
Fuel available 24 hours with credit card	
Desert View Marketplace	8:00 a.m. – 6:00 p.m.
Desert View Visitor Center	9:00 a.m. – 5:00 p.m.
Trading Post Gift Shop	8:00 a.m. – sunset
Watchtower Gift Shop	8:00 a.m. – sunset
Watchtower stairs	Close 30 minutes before gift shop
Desert View Campground	First-come, first-served

National Park Service
U.S. Department of the Interior

Grand Canyon National Park

Post Office Box 129
Grand Canyon, AZ 86023

For the latest information updates, visit Grand Canyon National Park’s web site at: www.nps.gov/grca/

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